

EXHIBIT F

In The Matter Of:
~In Re: Avaulta~

Bobbie Shull, M.D.
02/06/2013

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TIFFANYALLEY
REPORTING & VIDEO

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
CHARLESTON DIVISION

IN RE: C.R. BARD, INC.
PELVIC REPAIR SYSTEM PRODUCTS MDL NO. 2187
LIABILITY LITIGATION:

THIS DOCUMENTS RELATES TO:

LINDA RIZZO and RONALD RIZZO,
Plaintiffs,
vs.
C.R. BARD, INC.,
Defendant.

Case No.
2:10-cv-01224

WANDA QUEEN and GREG QUEEN,
Plaintiffs,
vs.
C.R. BARD, INC.,
Defendant.

Case No.
2:11-cv-00012

VIDEO DEPOSITION OF BOBBIE LEWIS SHULL, M.D.

February 6, 2013 - 9:14 a.m.

Mueller Law Offices

404 W. 7th Street

Austin, Texas 78701

Judith L. Leitz Moran - RPR, CCR-B-2312

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 CAROLYN JONES,

2 Plaintiff,

Case No.

3 vs.

2:11-cv-00114

4 C.R. BARD, INC.,

5 Defendant.

6

7 DONNA CISSON and DAN CISSON,

8 Plaintiffs,

Case No.

9 vs.

2:11-cv-00195

10 C.R. BARD, INC.,

11 Defendant.

12

13 NANCY SMITH and JOHN SMITH,

14 Plaintiffs,

Case No.

15 vs.

2:11-cv-01355

16 C.R. BARD, INC. and SOFRADIM

17 PRODUCTION SAS,

18 Defendants.

19

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21

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23

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1 APPEARANCES OF COUNSEL:

2 On behalf of Plaintiffs:

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6 Athens, Georgia 30601

7 (706) 354-4000

8 and

9 MARGARET M. THOMPSON, M.D., ESQUIRE

10 Mueller Law

11 404 W. 7th Street

12 Austin, Texas 78701

13 (512) 478-1236

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15 On behalf of Defendant C.R. Bard, Inc.:

16 RICHARD B. NORTH, JR., ESQUIRE

17 Nelson Mullins Riley & Scarborough LLP

18 Atlantic Station

19 201 17th Street NW

20 Suite 1700

21 Atlanta, Georgia 30363

22 (404) 322-6000

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25

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1 APPEARANCES OF COUNSEL (CONT.):

2 On behalf of Defendant Sofradim Production SAS:

3 MICHAEL D. MOELLER, ESQ.

4 Shook, Hardy & Bacon, LLP

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7 (816) 474-6550

8

9

10 Also Present:

11 Terry Wetz, Legal Video Specialist

12

13

14

15

16

17

18

19

20

21 (Pursuant to OCGA 15-14-37 (a) and (b) a

22 written disclosure statement was submitted by

23 the court reporter to all counsel present at

24 the deposition and is attached hereto.)

25

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1 VIDEO TECHNICIAN: And we are on the
2 record. The time is approximately 9:14 a.m.

3 This is the beginning of Tape 1 of
4 the videotape deposition of Dr. Robert Shull.
5 In Re: Avaulta Pelvic Mesh Support Systems.

6 Today's date is February 6th, 2013.

7 My name is Terry Wetz, Legal Video
8 Specialist.

9 Would counsel present please identify
10 themselves and who they represent for the
11 record.

12 MR. GARRARD: Henry Garrard on behalf
13 of Plaintiffs.

14 MS. THOMPSON: Margaret --

15 MR. NORTH: Richard -- oh, I'm sorry.
16 Go ahead.

17 MS. THOMPSON: Margaret Thompson on
18 behalf of the Plaintiffs.

19 MR. NORTH: Richard North on behalf
20 of C.R. Bard.

21 MR. MOELLER: Mike Moeller on behalf
22 of the Sofradim Defendants.

23 VIDEO TECHNICIAN: Thank you,
24 counsel.

25 Would the court reporter please swear

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1 in the witness.

2 BOBBY LEWIS SHULL, M.D.,
3 being first duly sworn, was examined as
4 follows:

5 THE WITNESS: I do.

6 MR. NORTH: This will be the
7 deposition of Dr. Bob -- how do you pronounce
8 your last name?

9 THE WITNESS: Shull.

10 MR. NORTH: -- Shull, taken for
11 purposes of discovery and all other purposes
12 permitted under the federal rules.

13 Mr. Garrard, as usual, I propose that
14 we reserve all objections except as to the form
15 of the question or the responsiveness of the
16 answer until such time as this deposition is
17 used.

18 MR. GARRARD: That's fine.

19 Although, I would state that the
20 court has encouraged us simply to reserve all
21 objections and I will be agreeable to that, but
22 I can also do form and responsiveness, too.

23 MR. NORTH: Because I often stumble
24 on form, I would be most appreciative if you
25 would make form objections. I'm not willing to

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1 stipulate as to the reservation of all of
2 those.

3 And what is the witness's preference
4 as to read and sign?

5 MR. GARRARD: He will read and sign.

6 MR. NORTH: And we'll stipulate that
7 he may do so before any notary public.

8 EXAMINATION

9 BY MR. NORTH:

10 Q Doctor, would you state your full
11 name for the record.

12 A Bobby Lewis Shull.

13 Q And what is your business address?

14 A I work at Scott & White Clinic in
15 Temple, Texas. The address is 2401 South 31st
16 Street.

17 Q Dr. Shull, as I introduced myself to
18 you before the deposition, my name is Richard
19 North and I'm an attorney representing C.R.
20 Bard in this litigation where you have been
21 named an expert witness.

22 Have you ever given a deposition
23 before?

24 A One time.

25 Q In what kind of case was that?

1 **A** It involved medical care and it's
2 been a number of years ago and I don't remember
3 the details, but it was a question about the
4 adequacy of care for a surgical patient.

5 **Q** But some sort of medical malpractice
6 case?

7 **A** Yes.

8 **Q** And were you testifying on behalf of
9 the physician who was being sued or the
10 patient?

11 **A** The physician.

12 **Q** Did that involve pelvic floor surgery
13 or do you recall?

14 **A** You know, I don't remember the
15 details, but I'm sure it did.

16 **Q** Okay. Well, since it's been a while
17 since you've given a deposition, let me ask you
18 to please let me finish my question before you
19 answer it so the court reporter can take it
20 down. And that you please answer out loud and
21 avoid the nod of the head or uh-huh or uh-uh.

22 And then, also, if at any time you
23 want to take a break today, please feel free to
24 do so. Just let us know and we'll be happy to
25 do so.

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1 And what is your profession,
2 Dr. Shull?

3 A I practice obstetrics and gynecology,
4 although, for the last 20 years or so my
5 practice has been limited to outpatient
6 gynecology and gynecologic surgery.

7 Q And just rough calculations, it
8 seemed to me you're probably in your late 60s
9 or early 70s?

10 A 69.

11 Q Okay. Are you still practicing
12 medicine full time?

13 A Yes, I do.

14 Q Before we get any further, I'd just
15 like to ask you a little bit about your
16 gynecological surgery career.

17 Have you ever implanted a
18 polypropylene mesh product?

19 A In the case of suburethral slings for
20 the treatment of urinary incontinence, the
21 answer is yes.

22 Q Do you still to this date implant
23 polypropylene slings?

24 A For the treatment of urinary
25 incontinence, yes.

1 Q How frequently do you perform that
2 sort of surgery today?

3 A It's variable, but in the course of a
4 year, I would estimate maybe 30 times or...

5 Q What slings do you presently use?
6 What manufacturer's products do you use in
7 those?

8 A Primarily, we use Johnson & Johnson's
9 tension-free vaginal tape for retropubic
10 slings. In the occasional case where we do
11 transobturator slings, we'll use the Boston
12 Scientific product.

13 Q Have you ever used any Bard products
14 for the treatment of stress urinary
15 incontinence?

16 A To the best of my knowledge, no.

17 Q So I gather by the way you answered
18 that question, that you have never implanted a
19 transvaginal mesh product for the treatment of
20 pelvic organ prolapse?

21 A I have not used any mesh products for
22 the treatment of pelvic organ prolapse being
23 placed transvaginally.

24 Q Have you used mesh for the treatment
25 of pelvic organ prolapse where the mesh was

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1 placed in the body through some other technique
2 or route?

3 A Occasionally, we'll do abdominal
4 sacral colpopexy. That involves placing a
5 synthetic material transabdominally.

6 Q How often do you do that procedure?

7 A We look at our statistics
8 periodically, and in the cases of women who
9 have pelvic organ prolapse, probably 90 or
10 95 percent of those women are treated with
11 vaginal surgery, about 5 percent are treated
12 abdominally.

13 I have two associates who are
14 technically more proficient at doing abdominal
15 surgery than I am. Most of the patients who
16 have abdominal surgery are treated by one of my
17 two colleagues.

18 Q Did you just say that 90 to 95
19 percent of the patients at your clinic that
20 have this sort of surgery have it through a
21 vaginal route?

22 A Yes, I did.

23 Q But you don't perform that surgery?

24 A The vaginal surgery, yes.

25 Q You do?

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1 A Yeah, I do.

2 Q Okay.

3 MR. GARRARD: Richard, he doesn't
4 mean by that he's putting mesh in there
5 transvaginally. It means he's doing surgery
6 vaginally.

7 BY MR. NORTH:

8 Q You're doing -- would you call that
9 native tissue surgery?

10 A Yes.

11 Q Okay. So you are estimating that in
12 your -- well, are you part of a practice group
13 at the clinic?

14 A Yes.

15 Q And how many gynecological surgeons
16 are in that group?

17 A In our department of obstetrics and
18 gynecology, we have a variety of locations
19 where we provide care.

20 In the main campus at Temple, there
21 are approximately 20 people on the faculty,
22 there are 16 residents in training in
23 obstetrics and gynecology, there are three
24 fellows who are doing post residency training
25 in the subspecialty of female pelvic medicine

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1 and reconstructive surgery.

2 We have other satellites. All
3 together we have about 40 physicians who
4 practice obstetrics and gynecology.

5 Q At the present time, do any of those
6 surgeons utilize transvaginal mesh products for
7 procedures?

8 A To the best of my knowledge, no one
9 does.

10 Q Over the last -- well, let's say
11 since 2005, have any of the surgeons affiliated
12 with your group used transvaginal mesh
13 products?

14 A For the treatment of prolapse or for
15 the --

16 Q For the treatment of prolapse.

17 A For the treatment of prolapse, I'm
18 not aware of that.

19 Q Did your practice group make a
20 decision at some point that you were not going
21 to use the transvaginal mesh products?

22 A The group who works with me at Temple
23 has discussed this issue extensively. We have
24 historically treated women with prolapse
25 through a transvaginal native tissue repair.

1 We have a long history of doing the
2 surgery, recording our outcomes, and reporting
3 on them in the scientific literature.

4 The introduction of mesh for the
5 treatment of prolapse 10 or 11 years ago was
6 discussed by those of us who worked together,
7 and we have chosen not to use that. We feel
8 that we get nice results with native tissue
9 surgery. We've documented that and recorded it
10 and we're pleased with that.

11 Q To your knowledge, have you ever used
12 a product manufactured by Bard for the
13 treatment of pelvic organ prolapse or stress
14 urinary incontinence?

15 A I'm not aware that I have.

16 Q Are you -- to your knowledge, have
17 you ever used a product manufactured by the
18 French company Sofradim for the treatment of
19 either stress urinary incontinence or pelvic
20 organ prolapse?

21 A I'm not aware that I have.

22 Q Same question as to a British company
23 by the name of Tissue Sciences Laboratories?

24 A I don't know what products they make.
25 Unless they make something for Johnson &

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1 **Johnson, for example, I don't believe I would**
2 **have used it.**

3 Q Over the years, has Johnson & Johnson
4 been your principal product that you've used
5 for the treatment of stress urinary
6 incontinence?

7 A **Yes.**

8 Q Do any of the slings or other mesh
9 products that you've used for the treatment of
10 stress urinary incontinence -- well, are they
11 made of polypropylene to your knowledge?

12 A **The tension-free vaginal tape is made**
13 **of polypropylene.**

14 Q What about the other products that
15 you use?

16 A **That Boston Scientific has? I can't**
17 **answer that for sure. I believe it's**
18 **polypropylene, but I don't know that for a**
19 **fact.**

20 Q Do either of those products have any
21 porcine or collagen component?

22 A **No.**

23 **(Defendant's Exhibit 1 marked.)**

24 BY MR. NORTH:

25 Q Doctor, let me hand you what's been

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1 marked as Exhibit 1, which was the notice of
2 deposition filed in this case. Do you
3 recognize that?

4 A Yes, I do.

5 Q And that requested that you bring a
6 number of documents with you.

7 What have brought with you today?

8 A Well, I believe that I have all the
9 patient records. I have the records that were
10 provided me by Mr. Garrard and Dr. Thompson
11 regarding the documents they acquired from Bard
12 and Sofradim. I have some scientific articles
13 which I previously reviewed. I have my report.

14 I don't know if there's something
15 else I should have. I don't remember anything
16 else. Is there something else I should have?

17 MR. GARRARD: Richard, let me -- let
18 me add that we have downloaded to a thumb drive
19 all of the materials he has reviewed, medical
20 records inclusive, documents, et cetera, which
21 we're furnishing to you.

22 MR. NORTH: Are those duplicative of
23 the hard copy materials that are sitting in
24 front of him now?

25 MS. THOMPSON: Everything that he has

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1 sitting in front of him is on the flash drive,
2 but there are also additional documents on the
3 flash drive that he does not have in front of
4 him.

5 MR. MOELLER: I just was going to see
6 if I could --

7 MR. NORTH: Yeah, if Mike can look at
8 that for a while.

9 MR. GARRARD: You can mark it as an
10 exhibit, whatever you want to do, but...

11 MS. THOMPSON: So that has all the
12 documents that were listed on his report as --

13 MR. MOELLER: Thank you, sir.

14 MS. THOMPSON: -- provided or relied
15 upon.

16 MR. NORTH: Are there additional
17 documents that he's relied upon that are not
18 listed on his report?

19 MR. GARRARD: Yeah, he has looked at
20 some updated medical records that are on that
21 flash drive and I've got copies of them here
22 also if --

23 MR. NORTH: Okay.

24 MR. GARRARD: -- if you want them.

25 MR. NORTH: Yeah.

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1 MR. GARRARD: He's also reviewed some
2 depositions, treating doctor depositions and
3 what have you that have been taken in the
4 interim. Some of them may have been taken
5 before, I don't know. There may be something
6 else.

7 MS. THOMPSON: And that's on the
8 flash drive.

9 MR. GARRARD: And they're -- they're
10 all on the flash drive. Everything's there.

11 MR. MOELLER: Can I just ask real
12 quick, Richard. Are these updated records on
13 specific or are they on all of the bellwethers?

14 MR. GARRARD: I think it's on three
15 of them, Mike.

16 MR. MOELLER: Okay. I've got --

17 MR. GARRARD: I think there are
18 updated records on Queen and Smith and --

19 MS. THOMPSON: Rizzo.

20 MR. MOELLER: Rizzo?

21 MR. GARRARD: -- Rizzo.

22 MR. NORTH: Has the doctor been
23 furnished any additional Bard documents or
24 Sofradim documents for his review besides what
25 was on the list?

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1 MR. GARRARD: You know, I don't want
2 to say, no, he hasn't. If he has, it's not
3 much, but -- but I'm not going to -- I'm not
4 going to say absolutely, no, without looking
5 through the flash drive.

6 MR. NORTH: So am I correct that we
7 do not have a current list anywhere of the
8 documents he's been provided, we just have them
9 all on this flash drive?

10 MR. GARRARD: You have them on the
11 flash drive.

12 MR. NORTH: And there's no listing or
13 index of them on the flash drive?

14 MR. GARRARD: Is there, Margaret?

15 MS. THOMPSON: The -- I'm not -- I
16 don't believe that the depositions and the
17 updated medical records were added to the
18 index. But the index is on the flash drive of
19 all the documents he reviewed.

20 But the additional ones are, as far
21 as I know, the -- the updated medical records
22 and the depositions.

23 MR. NORTH: If he were furnished
24 additional corporate documents, would those be
25 on the index on that flash drive?

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1 MS. THOMPSON: Yes.

2 (Defendant's Exhibit 2 marked.)

3 BY MR. NORTH:

4 Q Doctor, let me hand you what's been
5 marked as Exhibit 2. Can you identify for the
6 record what Exhibit 2 is?

7 A Exhibit 2 is Rule 26 Expert Report
8 of -- of Dr. Bob Shull.

9 Q And that's your report in this case;
10 is that correct?

11 A Yes, it is. Yes, it is.

12 Q Now, I notice that on the hard copy
13 stacks of documents that you have in front of
14 you that you brought in response to the notice
15 you have handwritten notes on a number of
16 those; is that correct?

17 A That's correct.

18 Q Then I see notes on the top of these
19 binders. Are there notes scattered throughout
20 the binders or just on the top?

21 A There may be some things underlined
22 as I reviewed the records. I don't have them
23 marked anyplace, but when I reviewed the
24 records, I may have underlined or highlighted
25 something.

1 What you see on the top is basically
2 an outline of some of the information to help
3 me recall what happened in the event you ask
4 about particular items.

5 Q And when were those notes prepared?

6 A They've been prepared over a period
7 of the last few months. I believe the first
8 time I was contacted by Margaret was in May of
9 2012, and sometime after that I began reviewing
10 some of the records.

11 Q Had you had any previous contact with
12 Margaret before?

13 A Professionally do you mean?

14 Q Well, let's start with
15 professionally.

16 A Well, Margaret practiced obstetrics
17 and gynecology in Austin and I practiced about
18 an hour away. So in that sense I had contact
19 because sometimes we'd share patients or we go
20 to meetings together or I would see her at
21 professional societies.

22 Q Okay. Did you -- the way you
23 distinguished between professionally, did you
24 know her personally, too, beyond those
25 professional contacts?

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1 **A We didn't have any social**
2 **interactions.**

3 Q Right.

4 So these handwritten notes had been
5 prepared over a number of months?

6 **A That's correct.**

7 Q But beyond any underlining or
8 highlighting or something, are all your
9 handwritten notes regarding these documents at
10 the front of each of these?

11 No. Just answered it.

12 **A There's one right there on Volume**
13 **III --**

14 Q Okay.

15 **A -- of Mrs. Rizzo. I think the rest**
16 **are on the front.**

17 Q Okay.

18 MR. NORTH: At the next break or
19 first break I would like to get copies of his
20 notes --

21 THE WITNESS: Sure.

22 MR. NORTH: -- so we could have those
23 and mark those as an exhibit.

24 MR. MOELLER: Just while we're on
25 short dialogue, we probably should get some

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1 extra copies of these medical reports, too. It
2 can be on a break or if you want me to hand
3 them to you now.

4 MS. THOMPSON: These two are yours.
5 You want more than that?

6 MR. MOELLER: Oh, we'd probably want
7 to mark some, too, at some point.

8 MR. NORTH: Right.

9 MS. THOMPSON: Okay.

10 MR. MOELLER: So I figure you'd guys
11 want some --

12 MS. THOMPSON: Okay. I'll just --

13 MR. MOELLER: Thank you.

14 (Defendant's Exhibit 3 marked.)

15 BY MR. NORTH:

16 Q Doctor, let me hand you what's been
17 marked as Exhibit 3.

18 Can you identify Exhibit 3 for the
19 record, Doctor?

20 A This exhibit is my curriculum vitae.

21 Q And I would represent to you that
22 this was the version of it that was attached to
23 your report when it was served in October. Has
24 your curriculum vitae been updated since then?

25 A To the best of my knowledge, nothing

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1 of any consequence has changed since this was
2 done. There have been -- possibly there's one
3 publication that isn't on it, but I don't know
4 that.

5 Q Doctor, do you know Dr. Donald
6 Ostergard?

7 A Yes, I do.

8 Q In what capacity?

9 A He and I have similar professional
10 interests. We have a similar practice of
11 medicine. We belong to some of the same
12 organizations. We've met at different
13 professional meetings. He and I have not
14 actually worked together in any patient care
15 issues.

16 Q Have you ever discussed transvaginal
17 mesh products with Dr. Ostergard?

18 A I have heard him give presentations
19 and I've read some of his publications about
20 mesh products. I've not had a personal
21 discussion with him particularly about it.

22 Q And you have not had any discussions
23 with him then about your work on this
24 particular litigation?

25 A No, I haven't.

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1 Q Okay. Is the Scott & White Clinic
2 affiliated with Texas A&M?

3 A Scott & White Clinic is an
4 organization of physicians and support
5 personnel to provide medical care. The clinic,
6 our hospital, and our health plan are a single
7 organization.

8 We provide medical education for
9 Texas A&M University College of Medicine. It's
10 done on a contract basis. We're not actually a
11 part of the Texas A&M system or university.

12 Q And is Texas A&M located in Temple?

13 A Texas A&M is located in a variety of
14 places. The primary campus is in College
15 Station, but there are campuses all over the
16 state.

17 Our particular medical school has a
18 campus in Temple, but there are also campuses
19 in other locations.

20 Q What would be considered the
21 principal campus for the Texas A&M medical
22 school?

23 A College Station.

24 Q Okay. Are you presently board
25 certified?

1 **A** I'm presently board certified in
2 obstetrics and gynecology.

3 **Q** Is there any specific board
4 certification available for gynecological
5 surgery as opposed to just obstetrics and
6 gynecology?

7 **A** In the general specialty of
8 obstetrics and gynecology, there currently are
9 three subspecialties for which you can take an
10 examination and be certified by the American
11 Board of Obstetrics and Gynecology. Maternal
12 and fetal medicine, oncology, reproductive
13 endocrinology.

14 As of June of 2013, there will be an
15 examination for the subspecialty of female
16 pelvic medicine and reconstructive surgery.

17 There currently is no examination for
18 that specialty so no one is subspecialized or
19 certified in that particular area at the
20 present time.

21 **Q** Now, my understanding is you
22 graduated from Duke University?

23 **A** I attended Duke University from 1961
24 to '64. I enrolled in medical school before I
25 graduated.

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1 Q What was your major at Duke?

2 A German.

3 Q And so you went straight from Duke to
4 Tulane Medical School?

5 A Yes, I did.

6 Q And that was without actually
7 graduating from Duke?

8 A That's correct.

9 Q And then you did your internship and
10 residency at the University of Virginia?

11 A That's correct.

12 Q And I believe you completed your
13 residency in 1973?

14 A Yes.

15 Q And where did you go after that?

16 A I had been enrolled in a program
17 called the Berry Program which allowed me to be
18 deferred from going into active duty military
19 during my residency program.

20 I had agreed that when I finished my
21 residency program, I would serve on active
22 duty. At the completion of my residency, I was
23 assigned to Sheppard Air Force Base in Wichita
24 Falls where I worked for two years doing
25 general obstetrics and gynecology.

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1 Q And after your two-year stint at the
2 air force base, what did you do?

3 A I came to Scott & White and I've
4 worked there ever since.

5 Q And what year did you begin with
6 Scott & White?

7 A 1975.

8 Q In what states are you licensed to
9 practice medicine in?

10 A Texas.

11 Q Has your license ever been suspended?

12 A No.

13 Q Dr. Shull, do you have any previous
14 training -- or any training at all in
15 biomaterials?

16 A No.

17 Q Biocompatibility?

18 A No.

19 Q Manufacturing processes?

20 A No.

21 Q What about pathology?

22 A In pathology?

23 Q Yes.

24 A As a student, we were required to
25 take pathology. As a resident, we had

1 pathology as a part of our rotation during our
2 residency program. So if that's what you're
3 asking about, the answer is yes.

4 Do I practice pathology now? The
5 answer to that is no.

6 Q So you have not really had any
7 experience with pathology since you completed
8 your residency?

9 A Not in interpreting the specimen
10 itself. We receive reports from pathology. We
11 integrate that into medical care, but I don't
12 actually do the evaluation of the tissues.

13 Q You have not ever done any pathology
14 analysis of an explanted mesh material, have
15 you?

16 A Not microscopically. The extent of
17 my involvement in that has been looking at the
18 gross specimen, not the microscopic.

19 Q Do you have any experience or
20 expertise in toxicology?

21 A No.

22 Q Have you ever worked for a medical
23 device manufacturer?

24 A No.

25 Q Have you ever consulted with a

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1 medical device manufacturer in the development
2 of a product?

3 A I have been asked to sit in groups
4 who are brainstorming about products, including
5 the treatment of urinary incontinence or the
6 pelvic organ -- or pelvic organ prolapse.

7 So if your question is have I been
8 involved in something along those lines, the
9 answer is yes. Have I actually participated in
10 the development of a product, the answer is no.

11 Q For what company did you do this
12 brainstorming work?

13 A Johnson & Johnson.

14 Q And when was that?

15 A I can't tell you the specific dates
16 for that. I am presuming it would have been in
17 the neighborhood of 2000, but I don't have a
18 specific time for it.

19 Q On how many occasions did you do
20 that?

21 A I can't tell you for sure, but it may
22 have been two times or so.

23 Q But it's probably been around a
24 decade or so since you did that?

25 A Well, the TVT was introduced, I

1 believe, in 1970 -- in 1996. I didn't begin
2 using the tension-free tape probably until
3 about 2001. So I'm thinking these inquiries
4 occurred sometime around 2000 or 2001.

5 Q Have you ever conducted a clinical
6 study of a new product that was sponsored by a
7 manufacturer?

8 A No.

9 Q Have you conducted any or headed up
10 any clinical studies over the course of your
11 career at Scott & White?

12 A Well, we've reported a number of
13 surgical procedures which we have performed on
14 the preoperative assessment of the patients, on
15 the morbidity associated with the procedure
16 itself, and on the subsequent follow-up of the
17 patient. So the answer to that is yes.

18 Q What's the largest cohort that you've
19 studied?

20 A I believe it is 302 patients we
21 reported on who had pelvic organ prolapse
22 treated with a native tissue repair and then
23 followed up and an assessment of the
24 preoperative findings, the intraoperative
25 morbidity. We were particularly interested in

1 the durability of the operation.

2 We looked at those patients in
3 several other ways, including how did the
4 preoperative examination compare to the
5 intraoperative examination. How did the
6 participation of residents in the care of the
7 patients affect the outcome.

8 Q When was that study published?

9 A 2000, I believe. I can look in my
10 curriculum vitae, but I believe it was 2000.

11 Q Please do.

12 A It was published in the American
13 Journal of Obstetrics and Gynecology in 2000.

14 Q And that was focused on native tissue
15 repair?

16 A That's correct.

17 Q Any other clinical studies that you
18 have spearheaded?

19 A I had previously reported on my
20 experience with treating what are called
21 paravaginal defect repairs. That was, I
22 believe, in 1996.

23 Q And how large was the cohort of
24 patients for that study?

25 A I believe there were approximately

1 200.

2 I've reported on the evaluation of
3 women who underwent sacrospinous ligament
4 suspension. That was reported in 1992 and
5 there were 81 women in that.

6 I reported on the use of native
7 tissue iliococcygeus fascia in the treatment of
8 prolapse that was published in 1993. There
9 were approximately 50 patients in that.

10 Now that I look at my curriculum
11 vitae, the one on paravaginal defect repair was
12 published in 1989.

13 Q Let me ask you this, Doctor. Have
14 you conducted any clinical studies since 2000?

15 A We have reported in 2012 on the
16 follow-up of certain women who were treated
17 with native tissue repair for apical prolapse.

18 We reported in 2008 on the transverse
19 cystocele repair in uterine preservation.

20 We reported on women who have fail
21 sacral colpopexy and who subsequent were
22 treated surgically.

23 When I look at my curriculum vitae,
24 that particular reference is given as a
25 presentation, but it in fact has been

1 published.

2 Q Obviously, since you've never --
3 neither you nor your group has ever implanted
4 transvaginal mesh for the treatment of pelvic
5 organ prolapse, you have not performed any
6 clinical studies regarding that procedure or
7 those products, have you?

8 A We have not done any clinical studies
9 using transvaginal mesh for the treatment of
10 prolapse.

11 Q Now, you are a member of a large
12 number of professional societies, I gather?

13 A Yes.

14 Q Including the American College of
15 Obstetricians and Gynecologists?

16 A Yes.

17 Q Have you ever held a leadership
18 position in that group?

19 A Yes, I have.

20 Q And what is that?

21 A I was chairman of the Texas section
22 of the American College. The American College
23 of Obstetricians and Gynecologists is set up in
24 a way that's similar to our states are set up
25 in the -- in the United States. We have state

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1 representatives. In the case of Texas, we
2 would have a chairman, a vice chairman, a
3 secretary and a treasurer.

4 At the time I worked in the American
5 College, we then were divided into districts.
6 Our district was 7 including a number of states
7 that are geographically adjacent to us.

8 As of the last several years,
9 however, Texas has been its own district in the
10 American College.

11 Q Have you ever held any national
12 leadership positions with the American College?

13 A No.

14 Q What about with the American
15 Urogynecologic Society?

16 A I've been a member of the society.
17 I've served on the board. I have been
18 president of the American Urogynecological
19 Society.

20 Q You were the president of the
21 society?

22 A Yes.

23 Q In what year?

24 A 1996 through '97.

25 Q Have you been -- have you remained

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1 active with that society since then?

2 A Yes.

3 Q Have you been -- well, let me start
4 over.

5 The American College that we
6 referenced a moment ago is often called under
7 the acronym ACOG, correct?

8 A Yes.

9 Q And the American Urogynecologist
10 Society is often called AUGS, A-U-G-S?

11 A Yes.

12 Q And are you aware that both ACOG and
13 AUGS had submitted sort of position statements
14 in the last couple of years regarding the use
15 of transvaginal mesh for the treatment of
16 pelvic organ prolapse?

17 A Yes.

18 Q Have you personally been involved at
19 all in the development of those position
20 statements?

21 A No.

22 Q There was a practice bulletin issued
23 by ACOG regarding these procedures in about the
24 2004-2005 time frame that's actually cited in
25 your report. Do you recall what I'm speaking

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1 of?

2 **A** There was one in February of 2007
3 which is cited in the report. And then a
4 revised edition of that in September of 2007.

5 Q Okay. Did you have any involvement
6 in the development of that practice bulletin?

7 **A** No.

8 Q Over the course of the years, have
9 you had any involvement with either AUGS or
10 ACOG in the development of positions, practice
11 bulletins, or policies with regard to the use
12 of transvaginal mesh for the treatment of
13 pelvic organ prolapse?

14 **A** No.

15 Q What about the same question but with
16 regard to any sling or mesh products for the
17 treatment of stress urinary incontinence?

18 **A** No.

19 Q I see from your curriculum vitae that
20 you've been involved with the credentials
21 committee at Scott & White?

22 **A** I have and I'm not presently, but,
23 yes, I have been. I served on our board of
24 trustees for approximately eight years.

25 Q And what was your -- what were your

1 duties as a part of the credentials committee?

2 A The medical faculty is required to
3 submit their credentials to be approved to have
4 hospital privileges. We have a group of
5 individuals then who review all of those
6 credentials. The credentials come to the board
7 of trustees for approval.

8 In addition, I served as chairman of
9 our department for several years and as
10 director of the division of gynecology. When
11 it was time for each of us individually to
12 submit our request for credentials, I, as the
13 director of division of gynecology would review
14 those requests from individual faculty members.

15 And then at the time I was chairman
16 of the department would look at them for
17 everyone for all privileges to decide whether
18 or not to approve them.

19 Q If a gynecological surgeon at Scott &
20 White wants to use a Johnson & Johnson TVT
21 product to perform the surgery for the
22 treatment of stress urinary incontinence, do
23 they need to go through the committee to get
24 credentialed for that procedure?

25 A They would request permission for

1 treatment of urinary incontinence, and one of
2 the requests may be mid-urethral slings, there
3 wouldn't be a request for a specific
4 manufacturer's product to be used.

5 Q If when you were on that committee
6 reviewing requests for credentials such as
7 that, would you ever consult with the
8 manufacturer of a device that was going to be
9 implanted as to that manufacturer's view as to
10 whether the doctor was capable of performing
11 that procedure?

12 A At the time I served in that capacity
13 in obstetrics and gynecology, the only time
14 that question would be applicable, I believe,
15 would have been in the case of mid-urethral
16 slings.

17 Q Uh-huh.

18 A And the answer is, we did not consult
19 a manufacturer about that.

20 Q Was there any reason why you didn't
21 consult the manufacturer?

22 A I'm not sure we discussed that.

23 Q Did you feel it was your role and
24 your committee's role to be the arbiter of
25 whether the doctors were competent to use those

1 slings?

2 A In our particular practice, in our
3 group practice, we have all chosen certain
4 things which we feel that we can provide the
5 best care.

6 Not everyone in our department treats
7 women with pelvic organ prolapse. Not everyone
8 treats urinary incontinence. Not everyone does
9 maternal fetal medicine. Not everyone does
10 oncology.

11 As a consequence, when people request
12 permission to be credentialed in particular
13 areas, they're normally a very specific. As
14 opposed to requesting privileges for
15 everything, they request privileges for the
16 things in which they are most likely to provide
17 care. Could be general outpatient gynecology,
18 general obstetrics.

19 But in the case of reconstructive
20 surgery, the treatment of fistulas, for
21 example, not everyone would request that.
22 Reimplantation of ureters in the bladder, not
23 everyone would request that. Mid-urethral
24 slings, not everyone would request that.

25 So for the people who did request it,

1 you asked do I think that I should know that
2 they're qualified to do the operation? Yes, I
3 would know whether or not they're qualified to
4 do the operation.

5 Q And you would consider with regard to
6 those physicians who were seeking credentials
7 to use these slings, that it was your
8 committee's role to make the determination
9 whether they should have those credentials?

10 A As the division director of
11 gynecology, it was my position to approve it or
12 disapprove it. As department chairman, it was
13 my position to approve what had been approved
14 by someone else who was the director of the
15 division of gynecology, so yes.

16 Q And you made those determinations
17 always without any consultation with the
18 manufacturer, correct?

19 A That's correct.

20 Q Do you own any patents?

21 A No.

22 Q Have you ever been sued for
23 malpractice?

24 A You know, prob -- and I can't tell
25 you the number of years ago there was a suit,

1 and it could have been 25 or 30 years ago,
2 which never -- there was a complaint.

3 There was nothing that went to court.
4 There was a patient complaint. We have our own
5 in-house legal counsel. We have our own risk
6 management.

7 And there was an issue of a woman who
8 brought a complaint about having a
9 hysterectomy. I believe that her complaint was
10 that she felt there was an alternate therapy
11 available for her.

12 It went through our risk management,
13 our internal legal department, it never went to
14 court. I never appeared in court. I don't
15 believe I was ever deposed about it. That was
16 all handled through our internal risk
17 management system.

18 Q Is that the only malpractice claim or
19 potential claim against you that you recall in
20 your career?

21 A To the best of my knowledge.

22 Q Doctor, you would agree that pelvic
23 organ prolapse is a medical condition that can
24 affect a women's quality of life, correct?

25 A Pelvic organ prolapse is a complaint

1 which may affect a women's quality of life.
2 There are some women whom we see for
3 examination who have an abnormal physical exam
4 that would by the strict definition qualify for
5 prolapse, and, in fact, the women have no
6 complaints.

7 Q But in some cases the symptoms can be
8 fairly severe, correct?

9 A The symptoms of pelvic organ prolapse
10 vary from individual to individual. Some women
11 have minimal complaints, some women have their
12 quality of life affected to varying degrees
13 including significant effect on their quality
14 of life.

15 Q In cases where the pelvic organ
16 prolapse has a significance impact on the
17 quality of a women's life, how does it affect
18 the woman?

19 A When I see someone who has pelvic
20 organ prolapse, the complaints generally fall
21 in several categories. They have some
22 complaint with support, they see or feel
23 something that they know isn't normal for them
24 and they're concerned do they have some serious
25 underlying disorder. Do they have a tumor? Do

1 they have something that will jeopardize their
2 health? So it could be seeing or feeling
3 something.

4 It could be function. Could be
5 function of the urethra, the bladder, could be
6 function of the bowel, it could be sexual
7 function.

8 It could be that it affects her
9 ability to have a good image of themselves.
10 That their body image is adversely affected
11 because they know their pelvic exam is
12 abnormal.

13 It could be because it affects their
14 ability to do physical activities they enjoy
15 doing, working, exercising. So the spectrum of
16 complaints is variable.

17 Q And there is a grading system that
18 physicians use to assess the severity of pelvic
19 organ prolapse; is that correct?

20 A There are several ways to assess
21 prolapse. One is through a history. So you
22 ask someone about their symptoms.

23 Another is to fill out some quality
24 of life instruments or documents that inquire
25 specifically about bowel function, bladder

1 function, sexual function.

2 Another is the physical examination.
3 On physical examination, until approximately
4 the mid-1990s, there was no recognized
5 objective system for quantifying the amount of
6 prolapse that someone has. Up until the
7 mid-1990s, people use very nondescript terms to
8 describe these physical findings.

9 I happen to be a member of a
10 committee which published the report on pelvic
11 organ prolapse quantification system in 1996
12 that was soon adopted by most organizations
13 around the world as being an objective way to
14 quantify the amount of the prolapse.

15 So history is one way to document
16 someone's concerns, a physical exam can be
17 objectively described, and then there are
18 certain tests of function, bowel function,
19 bladder function. There are no reproducible,
20 quantifiable tests for other complaints.

21 Q What about the POP-Q test?

22 A The POP-Q test is a pelvic organ
23 quantification system. And as I indicated
24 earlier, I was a part of the committee which
25 published that.

1 And since my name begins with S, it
2 always comes under the et al. in the
3 publication. But if you look in 1996 in my
4 curriculum vitae it is No. 17, The
5 standardization of terminology of female pelvic
6 organ prolapse and pelvic floor dysfunction.

7 Q What is the Baden-Walker method?

8 A The Baden-Walker method is a way to
9 describe pelvic organ prolapse which was
10 originated by Dr. Wayne Baden and Dr. Walker,
11 both of whom worked in the department where I
12 work in Temple.

13 And the Baden-Walker system is a
14 slightly different way to describe the extent
15 of prolapse. I believe Wayne published about
16 that in the 1970s.

17 It frankly is a method I prefer
18 because it's more simple. It's easy to
19 describe. And even though I helped with the
20 description of the POP-Q, the truth is I prefer
21 the Baden-Walker system for the general nurse
22 or doctor who is going to see a patient because
23 it's very understandable.

24 Q And so is the Baden-Walker system
25 what you use generally in your practice?

1 A Yes, it is.

2 Q What age range of women does pelvic
3 organ prolapse affect?

4 A Pelvic organ prolapse normally is a
5 function of age. If you look at all women who
6 have prolapse, there are a miniscule number of
7 females who have a congenital predisposition to
8 prolapse.

9 So a tiny number of women are born
10 with certain congenital abnormalities that we
11 know will result in pelvic organ prolapse.
12 Exstrophy of the bladder is one of those.

13 So prolapse may occur at a relatively
14 young age. Young girls with meningomyelocele
15 may have a congenital predisposition to
16 prolapse.

17 When you exclude those, the vast
18 majority of women then who have pelvic organ
19 prolapse have previously had a delivery, a
20 pregnancy and a delivery. Usually the delivery
21 has occurred vaginally.

22 So in my practice I will occasionally
23 see someone who with their first delivery at a
24 young age has terrible pelvic floor damage. A
25 women in her 20s. That's the exception.

1 The majority of women have completed
2 child bearing and are in their 40s, 50s, 60s,
3 70s or 80s by the time they present for
4 evaluation and care.

5 Q Would you agree that it is therefore
6 infrequent that you see a patient presenting
7 with prolapse who is in her 30s?

8 A If you look at all the patients that
9 we see for prolapse, the women in their 30s are
10 a smaller percentage of our patient population
11 than women who are in their 50s, 60s, 70s and
12 80s.

13 Q What is your recollection of when
14 transvaginal mesh products for the treatment of
15 pelvic organ prolapse first went into general
16 use in your profession?

17 MR. GARRARD: Wait a minute. Would
18 you just repeat that question, please.

19 MR. NORTH: Let me rephrase it.

20 BY MR. NORTH:

21 Q Doctor, what is your recollection as
22 to when products, transvaginal mesh products,
23 for the treatment of pelvic organ prolapse were
24 first introduced in the market and used widely
25 by physicians?

1 MR. GARRARD: Object to the form in
2 terms of your terminology used widely.

3 A Whenever I look at the history of
4 using something to supplement native tissue
5 repair in vaginal reconstructive surgery, there
6 are several stages.

7 Sometimes women can be treated by
8 using their own body's tissues. That's called
9 autologous tissue because it comes from a
10 person who is using it.

11 So there's been a history of using
12 autologous tissue for certain things in
13 reconstructive surgery that goes back decades.

14 When you look at the use of a
15 xenograft or an animal product, some people
16 were using xenografts probably 20 or 25 years
17 ago. Used as a -- basically an applique, a
18 standard repair was done, something then was
19 used to reinforce whatever you had done using
20 suture materials and perhaps the patient's own
21 tissue or perhaps even a xenograft.

22 The next phase of that and
23 this particular instance of using a synthetic
24 material such as polypropylene, individual
25 physicians probably have used that off and on,

1 I would estimate, for 20 or 30 years.

2 A report about it in 1996 from Tom
3 Julian, who is from the University of
4 Wisconsin, has been cited by a number of
5 authors because Tom treated about 25 women by
6 placing polypropylene and suturing it into
7 place. The change in the concept of using
8 products then happened sometime after 1996.

9 In 2000 or 2001, Peter Sand presented
10 a report at an organization that he and I both
11 belonged to, the Central Association of
12 Obstetricians and Gynecologists, on using
13 polyglactin an absorbable mesh for cystocele.

14 And when you look at his article,
15 actually, I happen to be one of the reviewers
16 in the comments on his presentation.

17 After the 2000 -- late 1990s, 2000
18 interval, there was more interest in trying to
19 use products.

20 The current system of using
21 trocar-based application of products is a
22 departure from the use of a specific applique
23 sutured in place.

24 The trocar-based products were, I
25 believe, first cleared by the FDA in 2002. So

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1 they've had a relatively short history.

2 The other interest in doing something
3 to reinforce vaginal repair to surgery has gone
4 on for a longer time period.

5 BY MR. NORTH:

6 Q Did you ever use xenografts in your
7 practice?

8 A I have not used a xenograft. I've
9 used autologous material, patient's own fascia.

10 Q And I may have asked it this way
11 earlier but I may have limited it, too. I just
12 want to be sure I'm clear.

13 Have you used any mesh ever for the
14 treatment of pelvic organ prolapse?

15 A Through the vagina?

16 Q Through the vagina.

17 A No.

18 Q Okay. Do you know whose product,
19 trocar-based product, was first cleared by the
20 FDA in 2002?

21 A For the treatment of prolapse, let me
22 look at that and see.

23 Actually, I don't know whose -- I
24 don't know whose it was actually. I don't know
25 if it was AMS or J&J. I can't answer that.

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1 Q Well, you would agree that Bard is
2 not the first company to introduce a
3 trocar-based transvaginal mesh product to the
4 market, would you?

5 A For the treatment of pelvic organ
6 prolapse?

7 Q Yes.

8 A To the best of my knowledge, Bard was
9 not the first company to do that.

10 Q Are you familiar with the
11 manufacturing processes for polypropylene mesh?

12 A No.

13 Q Do you know how the product is
14 sterilized?

15 A No, I don't.

16 (Defendant's Exhibit 4 marked.)

17 BY MR. NORTH:

18 Q Let me show you what's been marked as
19 Exhibit 4.

20 MR. GARRARD: Thank you, sir.

21 BY MR. NORTH:

22 Q Dr. Shull, Exhibit 4 is actually what
23 was Exhibit B to your expert report in this
24 litigation, correct?

25 A I don't know the answer to that.

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1 These are references I used, but you asked me
2 if it's Exhibit B and I don't know the answer
3 to that. I'll have to look and see where
4 Exhibit B is.

5 Q Well, let's look back at your report
6 then.

7 A I see, it's on Page 2. A list of
8 these materials contain Exhibit B.

9 Q Right.

10 A I want to look that up. I don't see
11 it in that form, so, I don't know how to answer
12 that question.

13 THE WITNESS: Do you?

14 BY MR. NORTH:

15 Q I'm sorry, what's that?

16 A I don't see -- in these documents I
17 don't see something that is itemized the exact
18 way you have it. And you asked me if that's
19 Exhibit B and I can't answer that for sure
20 because I don't --

21 MR. GARRARD: Richard, to save you
22 some time, I will agree that Exhibit B was
23 attached to his report.

24 BY MR. NORTH:

25 Q Well, with that stipulation by your

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1 -- or agreement by Mr. Garrard, Exhibit B that
2 was attached to your report was supposed to be
3 a list of all the materials you reviewed.

4 A Yes.

5 Q And you have no reason to dispute
6 Mr. Garrard's representation that this is in
7 fact that list of materials, do you?

8 A I do not.

9 Q Now, these materials contained a
10 large number of documents that came either from
11 Bard itself or in a few instances from
12 Sofradim; is that correct?

13 A Yes.

14 Q And did you pick out the documents
15 you were going to review in that regard or were
16 those furnished to you by the Plaintiff's
17 counsel?

18 A I was given a set of documents which
19 I reviewed and highlighted the ones I thought
20 raised questions or concerns in my mind.

21 Q But my question is, who chose the
22 documents that were sent to you? They selected
23 which documents would be sent to you
24 originally, correct?

25 A Are you asking did I request

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1 **documents from Bard or Sofradim?**

2 Q No.

3 A **I did not request them.**

4 Q That's not my question, Doctor.

5 My question is, did the Plaintiff's
6 attorneys determine or select which documents
7 from Bard and Sofradim would be sent to you?

8 A **They provided me the documents.**

9 Q Well, and they selected which
10 documents to send to you, correct?

11 A **I'm presuming they chose them.**

12 Q I mean, they didn't give you -- well,
13 are you aware of the fact that approximately
14 11.5 million pages of documents have been
15 produced in the litigation so far?

16 A **I didn't know that.**

17 Q Well, they did not give you an index
18 of all the documents that were produced in the
19 litigation and ask you to identify from that
20 index which ones you wanted, right?

21 A **That's accurate.**

22 Q Instead, they chose which ones you
23 would -- they would send to you and sent them
24 to you as a package?

25 A **That's correct.**

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1 Q And you would agree that you weren't
2 sent 11.5 million pages, I would assume?

3 A I don't believe. If they were sent,
4 they were never received.

5 Q Once you reviewed the documents they
6 sent you, did you make a request to see any
7 other documents from the company?

8 A No.

9 Q If we could look at Exhibit 3. And
10 the pages aren't numbered, but let's see.
11 Let's just go through it sort of page by page.

12 On the first page are documents with
13 a Bates number SMITHN, and I'm assuming those
14 are --

15 A Did you say Exhibit 3?

16 MR. GARRARD: 4.

17 A Exhibit 4.

18 BY MR. NORTH:

19 Q I'm sorry, Exhibit 4, which is also
20 Exhibit B.

21 These appear to be medical records
22 from certain Plaintiffs in the action,
23 including Nancy Smith, Cisson, Queen, and
24 Rizzo.

25 A That's correct.

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 Q And then once you finished the
2 listing of the Rizzo documents, there are a
3 number of medical articles listed; is that
4 correct?

5 A Yes.

6 Q And in fact, there are a number of --
7 number of medical articles sort of scattered
8 through this listing as you go through it page
9 by page, correct?

10 A Yes.

11 Q And those medical articles were
12 selected and sent to you by the Plaintiffs'
13 attorneys; is that correct?

14 A No. Some of these I requested
15 myself. Some I was familiar with already.

16 Some I knew the general idea of the
17 content, but I didn't have the specific
18 publication in my hand.

19 An example of that would be the
20 American College Bulletin from 19 -- from 2007.
21 And then the subsequent revision of that
22 document later in 2007.

23 Q Well, let me ask you this, Doctor.
24 Did you request specifically all of these
25 medical articles or were there a subset of the

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 medical articles that the Plaintiffs sent to
2 you saying you need to have this as a part of
3 your file?

4 **A I was provided part of the articles**
5 **without my requesting them.**

6 Q Okay. Can you estimate what
7 percentage of the articles you were provided
8 without a specific request?

9 **A Perhaps 50 percent.**

10 Q Doctor, did you participate at all in
11 the FDA's hearings in September of 2011 --

12 **A No.**

13 Q -- with regard to mesh products?

14 **A No, I did not.**

15 Q Have you ever consulted with the FDA
16 in any capacity?

17 **A No, I have not.**

18 Q So you've never served on an FDA
19 advisory committee of any sort, have you?

20 **A No.**

21 Q Have you ever prepared a 510(k)
22 submission to the FDA for the approval of a
23 medical device -- or clearance of a medical
24 device?

25 **A I have not.**

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 Q Have you ever prepared a premarket
2 application or amendment, a PMA, to the FDA for
3 the approval of a medical device?

4 A No.

5 Q Have you ever drafted any warnings
6 with regard to a medical device?

7 A No.

8 Q Have you ever drafted or prepared any
9 instructions for use for a medical device?

10 A No.

11 Q Have you ever read an instructions
12 for use for a medical device?

13 A Yes.

14 Q With how many devices would you
15 estimate over the years?

16 A I have read the instructions for use
17 for the devices that I use, the suburethral
18 slings.

19 I have reviewed the instructions for
20 use on some of the transvaginally-placed mesh
21 products, even though I've not used the
22 products. In some cases I have looked at the
23 DVDs provided by the manufacturers. In
24 addition to have reading -- having read the
25 product information forms.

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 Q Well, your review of instructions for
2 use with regard to transvaginal mesh products
3 for the treatment of pelvic organ prolapse has
4 all been in the context of your work in this
5 litigation, hasn't it?

6 MR. GARRARD: Object to the form --

7 A No.

8 MR. GARRARD: -- of your question.
9 That's not accurate.

10 BY MR. NORTH:

11 Q Have you looked at those instructions
12 for use of products for the treatment of --
13 transvaginal mesh products for the treatment of
14 pelvic organ prolapse in some other context?

15 A From another manufacturer or in
16 another context?

17 Q Either one.

18 A Well, I have looked at other
19 manufacturer's instructions for use before I
20 was ever knowledgeable about the case against
21 Bard.

22 Q Are you familiar with the fact that
23 there's similar litigation pending against
24 Johnson & Johnson?

25 A Yes.

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 Q And that there's similar litigation
2 pending against Boston Scientific?

3 A Actually, I didn't know that, but it
4 doesn't surprise me, but I didn't know that.

5 Q Do you use catheters in your
6 practice, urinary catheters?

7 A Yes, we do.

8 Q What brand do you use for catheters
9 generally?

10 A I believe it's Bard, but I can't tell
11 you that for a fact.

12 Q So you have used, to your knowledge,
13 some Bard devices over the years, correct?

14 A Yes.

15 Q And to your knowledge, are you still
16 using Bard devices?

17 A Yes.

18 Q Do you know whether you've used over
19 the years any devices manufactured by Covidien?

20 A When you say devices, could you be
21 more specific about that and maybe I could
22 answer that accurately.

23 Q I'm going to let my colleague be more
24 specific about that. Do you recall just
25 generally right now?

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 A I don't know who produces some of the
2 things we use at work, frankly. So it's quite
3 possible because I believe our organization
4 maybe has a contract with Covidien for certain
5 items, but I don't know what they are.

6 Q Are you familiar with the federal
7 regulations promulgated by the FDA concerning
8 the content of instructions for use with regard
9 to medical devices?

10 A I don't think I understand the
11 question.

12 Q Are you familiar with the federal
13 regulations that govern what goes into -- what
14 types of information goes into instructions for
15 use with regard to medical devices?

16 A No, I'm not.

17 Q Have you ever developed a training
18 program for the use of medical devices?

19 A In our department we have taught
20 courses on surgery. We began probably in the
21 19 -- early 1980s doing a postgraduate course
22 on the evaluation and management of women with
23 pelvic organ prolapse that was entirely
24 didactic. There were no hands-on experiences
25 of any kind.

1 For approximately the last 15 years
2 once or twice a year we teach a course that is
3 didactic classroom enhanced by videos.

4 And at the end of a
5 one-and-a-half-day session, normally I would be
6 the one doing live surgery, the registrants
7 then sit in a classroom and watch me perform
8 the surgery that we have been discussing for
9 the previous day and a half.

10 We modified that about maybe seven or
11 six years ago to include a session with cadaver
12 demonstration of the anatomy we're discussing.

13 In the case of mid-urethral slings,
14 we have used the cadavers to demonstrate the
15 placement of a trocar for a mid-urethral sling.

16 In the case of dissection for other
17 types of prolapse, we have not used products to
18 demonstrate with the exception of mid-urethral
19 slings.

20 Q Well, these training programs that
21 you've just described, those are all, as I
22 understand it, developed by the doctors at your
23 clinic?

24 A That's correct.

25 Q You have not worked with a

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 manufacturer of a medical device to develop a
2 training program for that specific
3 manufacturer's devices, have you?

4 A I have not.

5 Q Have you ever attended a training
6 program sponsored by a device manufacturer?

7 A Before I began using the tension-free
8 vaginal tape, it had been on the market for
9 about five years. Actually, I knew a lot about
10 them from reading and conversation with people
11 who are users of the product.

12 Before I used the product myself, I
13 had seen other surgeons around the world use
14 the product.

15 Specifically to your question,
16 however, I went to Pennsylvania to spend a day
17 with Vince Lucente for him to demonstrate in
18 his own patients the placement of a
19 tension-free vaginal tape before I returned and
20 used the product myself.

21 Q And was your trip to see Dr. Lucente
22 sponsored by Johnson & Johnson?

23 A Yes, it was.

24 Q Other than that one day spent with
25 Dr. Lucente, have you ever attended a training

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 program sponsored by a device manufacturer for
2 the use of a specific device?

3 A You know, I don't think I have. I've
4 gone to other anatomy programs and sometimes
5 people will be demonstrating a product. But I
6 don't believe I've gone to one to be educated
7 about the use of someone's product.

8 Q Okay. And you've never attended a
9 cadaver lab, for example, for -- sponsored by a
10 manufacturer for training on one of these
11 devices, have you?

12 A I don't believe I have. I've taught
13 at courses where cadavers are used.

14 Q And this one day you spent with
15 Dr. Lucente being trained or shown a procedure
16 with the Johnson & Johnson TVT, that would have
17 been about a decade ago roughly?

18 A Approximately. About 2001 or 2002,
19 someplace in there. I have it in my records
20 some place.

21 Q And you know Dr. Lucente?

22 A I do.

23 Q Have you kept in touch with him over
24 the years?

25 A I see him at many professional

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 organizations. I actually gave his oral board
2 exam when he was certified by the American
3 Board of Obstetrics and Gynecology.

4 MS. THOMPSON: And you passed him?

5 THE WITNESS: I did.

6 BY MR. NORTH:

7 Q You've told us that you've never
8 implanted a transvaginal mesh product for the
9 treatment of pelvic organ prolapse, and to the
10 best of your knowledge, neither has anybody in
11 your group, correct?

12 A That's accurate.

13 Q Have you ever witnessed another
14 surgeon implanting a transvaginal mesh product
15 for the treatment of pelvic organ prolapse?

16 A I have. I operate around the world
17 with some frequency. I've gone to Italy a
18 number of times to operate, to other countries,
19 to India, to Central America.

20 But in the case of going to Italy,
21 for example, there normally would be five
22 surgeons who are there invited to operate, five
23 or more. And we may watch other people operate
24 and they may watch us do our surgery.

25 I happened to be there a few years

1 ago when Dr. Jacquetin was working on one of
2 the mesh products that he's helped developed.
3 So I saw him early in the development of the
4 transvaginal mesh for the treatment of prolapse
5 employ that technique.

6 I was in the op -- I didn't scrub
7 with him, but I was in the operating room and
8 watched him actually do the procedure. And
9 after these sessions where multiple surgeons
10 come, then we normally will discuss what
11 people's various interests and skills are.

12 Q Could you spell his name for me?

13 A J-A-C-Q-U-E-T-I-N.

14 Q Is he from Italy?

15 A France. Bernard Jacquetin.

16 Q Do you know what product he was
17 implanting?

18 A At the time I didn't. And actually,
19 I still don't know that today. I know he was
20 doing a synthetic product, but I did not know
21 the manufacturer or the name of the product.

22 Q Is that the only time that you have
23 seen an implant procedure or witnessed one or
24 observed one with a transvaginal mesh product
25 for the treatment of pelvic organ prolapse?

1 A No. I've seen it on many occasions.
2 I've gone to India five times to volunteer to
3 operate. Usually there are surgeons from
4 around the world who come to the same hospital.
5 People use various techniques.

6 I normally go specifically to teach
7 using native tissue surgical procedures for a
8 variety of reasons. One of them, I'm
9 comfortable with it. Another is in a
10 developing world it's helpful to know how to
11 use things and have very little cost associated
12 with them.

13 When I am there, other surgeons will
14 be using various products.

15 Q To your knowledge, have you ever seen
16 another surgeon implant an Avaulta
17 Biosynthetic, Avaulta Plus or a Avaulta Solo
18 mesh product?

19 A No.

20 Q As a part of your practice, do you
21 treat some patients who have -- come to you
22 with complications from mesh implanted by other
23 surgeons?

24 A Yes.

25 Q Have you ever performed any surgeries

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 to remove mesh from a patient?

2 A Yes.

3 Q On how many occasions would you
4 estimate?

5 A I can't tell you the total number,
6 but over the past five to six years the
7 percentage of our surgical practice that has
8 evolved into the management of various
9 complications of mesh is probably 15 to
10 20 percent of our total number of surgeries.

11 The three of us together do
12 approximately 400 operations a year.

13 Q 400 mesh removal operations?

14 A We do 400 total surgeries per year
15 and probably 10 to 20 percent are related to
16 some complication of mesh.

17 Q To your knowledge, have you ever
18 removed an Avaulta Biosynthetic, Avaulta Plus
19 or Avaulta Solo mesh product?

20 A Yes.

21 Q On how many occasions do you believe?

22 A I can't answer that. I don't know
23 the answer to that.

24 Q Do you think it's more than 10?

25 A I don't think it is.

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 Q How -- on those occasions, how did
2 you know that it was an Avaulta product?

3 A When we see patients in referral --
4 my practice is primarily a referral practice --
5 we may receive the physician's records when the
6 patient presents for the first visit. We may
7 request the records and be sent them later.
8 Sometimes we never receive the records.

9 The way to know specifically if a
10 particular product has been used generally is
11 because the operative note would state it.

12 However, there are some surgeons who
13 use products for surgery but do not include the
14 trade name of the product in the operative
15 report. They'll simply indicate they used a
16 mesh product and you could not identify the
17 trade name from the operative note.

18 Q Well, with the mesh removal surgeries
19 that you've performed over the last five years
20 that -- and your group has performed, have the
21 number of surgeries that -- where you could
22 determine that it was an Avaulta product been a
23 small percentage of those mesh removal
24 surgeries?

25 MR. GARRARD: Doctor, if you know,

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1 answer the question, but I ask you not to guess
2 or speculate.

3 A See, I don't know the answer to that
4 because there are three of us together and I
5 can't answer that question specifically.

6 BY MR. NORTH:

7 Q What about with you personally?

8 A I know that I've removed Avaulta. I
9 have not kept a list of the different products
10 to be able to answer that question for you with
11 any degree of accuracy.

12 Q Well, you have also performed mesh
13 removal surgeries with Johnson & Johnson
14 products, correct?

15 A I've removed mesh made by different
16 manufacturers, that's accurate.

17 Q And you've removed mesh manufactured
18 by Boston Scientific?

19 A I probably have. The truth is I
20 don't know the trade names and the connection
21 to the manufacturer for everything.

22 Q But -- okay. Well, let me ask it
23 this way. You have removed a number of meshes
24 over the years that were not Avaulta mesh,
25 correct?

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 A Not all the meshes we've removed have
2 been Avaulta.

3 Q Right.

4 A That's certainly true.

5 MR. GARRARD: When you get to a
6 reasonable stopping point, I --

7 MR. NORTH: Yeah, I think it's a good
8 point now.

9 VIDEO TECHNICIAN: Stand by, please.
10 We are off the record. The time is
11 10:33. This is the end of Tape 1.

12 (Recess taken.)

13 VIDEO TECHNICIAN: And we are back on
14 the record. The time is approximately 10:48.
15 This is the beginning of Tape 2 of the
16 videotape deposition of Dr. Robert Shull.

17 You may continue, sir.

18 BY MR. NORTH:

19 Q Dr. Shull, do you speak any foreign
20 languages?

21 A Not fluently. I can speak some
22 Spanish, some German. At one time a little bit
23 of Italian. But I'm not fluent in anything
24 other than English.

25 Q Any French?

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Bobbie Shull, M.D.

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1 **A No.**

2 **Q We were talking about your mesh**
3 **removal surgeries when we -- right before we**
4 **took the break and what you had witnessed with**
5 **regard to implant.**

6 While you have not to your knowledge
7 observed an Avaulta implant surgery live, you
8 have seen some DVDs or videos of the implant
9 procedure, correct?

10 **A Yes.**

11 **Q And those videos were on a cadaver,**
12 **weren't they?**

13 **A To the best of my knowledge, that's**
14 **correct.**

15 **Q Now, in any mesh removal surgeries**
16 **you performed over the years that involved an**
17 **Avaulta product, do recall making an**
18 **examination of the explant, the Avaulta mesh at**
19 **the time you did the surgery?**

20 **A By gross visualization, we made an**
21 **observation. We normally record the**
22 **dimensions. Something about the**
23 **characteristics of the mesh may be included in**
24 **the operative note itself.**

25 **Q Have you performed any testing on any**

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Bobbie Shull, M.D.

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1 Avaulta mesh that you have explanted from that
2 patient?

3 A Beyond looking at it, recording the
4 dimensions, we would send it to the
5 pathologist. The pathology report usually is
6 very similar to what I just told you, they
7 record the dimensions and there normally is not
8 a microscopic examination.

9 Q Have you taken over the years
10 pictures of any Avaulta mesh implant or
11 explants that you've removed?

12 A I don't know the answer to that.

13 Q Do you recall as you sit here?

14 A No.

15 MR. NORTH: Sorry about that.

16 BY MR. NORTH:

17 Q As you sit here today, can you recall
18 anything different or unusual about the Avaulta
19 mesh explants you may have seen over the years
20 as compared to other manufacturer's mesh
21 explants you've looked at?

22 A No.

23 Q Do you know the name of Johnson &
24 Johnson's transvaginal mesh product for the
25 treatment of pelvic organ prolapse?

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 **A I believe it's Prolift.**

2 Q Have you ever removed any Prolift in
3 a mesh removal surgery before?

4 **A Yes.**

5 Q Can you estimate on how many
6 occasions?

7 **A No.**

8 Q I noticed that a number of your
9 publications involved squirrel monkeys?

10 **A Right.**

11 Q Can you explain to me what the
12 significance of squirrel monkeys are in your
13 practice?

14 MR. GARRARD: You want to buy one to
15 take home?

16 A Squirrel monkeys weigh about 800
17 grams. There are 454 grams in a pound.
18 Squirrel monkeys are little. They have a life
19 expectancy of about 20 or 22 years. They
20 develop prolapse.

21 There are no good animal models to
22 evaluate prolapse in the mammal family. We
23 learned by serendipity through one of our PhDs
24 who has an animal colony with squirrel monkeys
25 that they develop prolapse.

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Bobbie Shull, M.D.

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1 About 20 years ago, we began to look
2 at these animal colonies. We realized we could
3 do some things with animals that you can't do
4 with humans.

5 Their life expectancy is shorter.
6 They do develop prolapse. It's possible to
7 create an experimental model trying to learn
8 about factors that predispose to prolapse or
9 interventions that may prevent prolapse.

10 The reason we were curious about that
11 is because in the history of medicine in
12 general, if you're able to prevent a disease
13 rather than treat the disease, there's a public
14 health benefit to that.

15 And that's how all of our health has
16 improved over a period of hundreds of years.

17 A good example of that in OB-GYN, for
18 example, is perhaps when your parents were
19 born, if your mother's mother had been
20 Rh-negative and your mother were Rh-positive,
21 your mother may have sustained intrauterine
22 disease destroying her own blood cells, for
23 example.

24 That could have occurred in the '40s,
25 '50s, and even in the 1960s. Now that almost

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Bobbie Shull, M.D.

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1 never occurs in a developed country because
2 that disease can be prevented.

3 In the case of pelvic organ prolapse,
4 our curiosity is can you do something to
5 prevent the development of pelvic organ
6 prolapse; and if so, how can you evaluate it.
7 The animal model provides you an opportunity to
8 do that.

9 So over the past 20 years we've had a
10 number of publications on this particular
11 animal model describing the anatomy, the gross
12 anatomy, the neurological anatomy.

13 We followed their obstetrical
14 histories and we've done some interventions,
15 asking the question, if you do certain things,
16 does that predispose the animal to develop
17 prolapse more quickly, for example.

18 So this specific animal model has
19 been used in an effort to try to learn more
20 about the causes of prolapse and what could we
21 do to prevent it because in this area we're
22 discussing now about the surgical management of
23 prolapse, we're at a point in time where
24 particular strategies are being used, but those
25 strategies are going to go away because

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1 medicine is changing.

2 In the case of using any materials,
3 for example, what is likely to happen is the
4 whole issue of reinforcing a repair may evolve
5 into we would take some of your blood cells,
6 some of your fat cells, some of your muscle
7 cells, and we may create something that your
8 body recognizes to enhance the surgical
9 management of whatever it is.

10 If that's the situation, many of
11 these issues about complications associated
12 with whatever we're doing now may not be
13 important.

14 So we're looking at things about
15 etiology and about interventions. It's
16 unrelated to the surgical strategy of treating
17 prolapse.

18 When we write about surgical
19 strategies, we're writing about our experience
20 with patients that we see, what we do, are
21 there complications. And if there are, how we
22 manage them, how do we reduce the
23 complications, and how do we increase the
24 durability. In this case the durability of
25 surgery for prolapse.

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Bobbie Shull, M.D.

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1 BY MR. NORTH:

2 Q Well, that leads me to my next
3 question then. I gather that you have never
4 actually performed surgical tests with squirrel
5 monkeys?

6 A I haven't personally, our lab has.
7 So, yes, we have PhDs in the lab and physicians
8 in the lab who do that. I have not personally
9 done the surgeries.

10 Q Have you ever designed any sort of
11 animal test for the implantation of some sort
12 of product or device?

13 A Our group has. I didn't personally.

14 Q I'm asking about you personally.

15 A No, I haven't.

16 Q You've never developed a protocol for
17 an animal test?

18 A No.

19 Q You've never performed an animal test
20 personally?

21 A No.

22 Q Have you ever witnessed animal
23 testing taking place?

24 A How do you mean witnessing? The
25 implantation of a product or the explantation

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1 **of a product?**

2 Q Right.

3 A No.

4 Q And to the extent that's done in your
5 group, that's done in the laboratory with other
6 physicians and PhDs?

7 A **That's correct.**

8 MR. NORTH: If we could mark this as
9 the next exhibit. Is that No. 5?

10 THE COURT REPORTER: Uh-huh.

11 (Defendant's Exhibit 5 marked.)

12 MR. GARRARD: Do you got one that my
13 old eyes can read?

14 MR. NORTH: We are all in the same
15 boat, Mr. Garrard.

16 BY MR. NORTH:

17 Q Doctor, is this an article that you
18 had prepared in the past?

19 A Yes.

20 Q And when was this published?

21 A **December 1994.**

22 Q This did not have to do with the
23 implant of any mesh product, did it?

24 A **In this series of 62 women, we used**
25 **native tissue and suture material.**

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 Q And in fact, in this particular
2 study, 21 of the 62 patients developed some
3 sort of defect or combination of defects after
4 the surgery; is that correct?

5 A When we analyze these patients and
6 describe their physical findings as grade, this
7 is using the Baden-Walker system, Grades 1, 2,
8 3 or 4, certain women had poor support in some
9 segments greater than normal would be Grade 0.
10 So some had more than Grade 0.

11 Q Look at Table V, if you will, on Page
12 6 of 12.

13 A Okay.

14 Q Does that give a recurrence rate
15 after the native tissue surgery?

16 MR. GARRARD: Which table, Richard?

17 MR. MOELLER: Table V.

18 MR. NORTH: Table V, Page 6 of 12.

19 MR. GARRARD: I've got Table IV I
20 believe is what you're referring to. Perhaps
21 I'm --

22 BY MR. NORTH:

23 Q I'm looking at the very bottom of the
24 page. Is that -- that may not be Table V. It
25 says Table V under it.

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 A Yeah, I see it. I'm just reading it
2 a minute.

3 Q Maybe that's Table IV.

4 A (Witness reviews document.)

5 Q My question is pretty simple from
6 that, Dr. Shull. Doesn't that indicate that
7 after the native tissue surgery performed --
8 that was done for these 62 patients that at the
9 first postoperative visit 34 percent of those
10 patients still had support defects of some
11 sort?

12 A I'm going to answer that just as soon
13 as I read that.

14 If you read the table you're
15 referring to, it says Groups of Patients and
16 the Number. Patients undergoing vaginal repair
17 performed transvaginally, there were 62.
18 Patients with no defects at 6 weeks, there were
19 58 patients with no defects at 6 weeks, and
20 that would give a 94 percent. Patients with
21 support defects at any site, and if you look at
22 the asterisk, it says, Patients with loss of
23 support any site at any time after surgery,
24 there were 21.

25 If we go farther down the

1 explanation, the support defects, halfway to
2 the hymen, those were 16 of the 21. If we have
3 support defect to the hymen, there were three.

4 So of the 62 women at any time in the
5 follow-up who had something prolapsing outside
6 the hymen, 2 of the 62 patients had something
7 outside the hymen.

8 Q Okay. But my question is, 34 percent
9 of the patients following the tissue repair
10 surgery showed some support defect following
11 the surgery, correct?

12 A At a visit, 21 of these 62 patients
13 had one or more areas that had some degree of
14 pelvic support loss.

15 Q Okay.

16 MR. NORTH: Let me have this marked
17 as Exhibit 6.

18 (Defendant's Exhibit 6 marked.)

19 BY MR. NORTH:

20 Q What is No. 6, Dr. Shull?

21 A Exhibit No. 6 is an article which I
22 published in the American Journal of Obstetrics
23 and Gynecology in 1999 entitled Pelvic organ
24 prolapse: Anterior, superior, and posterior
25 vaginal segment defects.

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Bobbie Shull, M.D.

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1 Q And here you're talking generally
2 about native tissue surgeries to correct pelvic
3 organ prolapse?

4 A Yes.

5 Q And at that time you were compare --
6 you made some comparison to the treatment of
7 pelvic organ prolapse to the treatment of
8 hernias, correct?

9 A Yes.

10 Q And what were the similarities there
11 in your mind?

12 A Pelvic organ prolapse is similar to a
13 hernia in the sense that hernias are related to
14 poor support in connective tissue.

15 You or I could have a hernia in your
16 diaphragm, your abdomen, your groin.

17 In the case of women, they could have
18 hernias in the pelvis. They're associated with
19 some abnormality of the normal continuity of
20 connective tissue in the area where the
21 connective tissue should be supporting either a
22 part of your bowel or in the case of women the
23 bladder, the top of the vaginal canal.

24 Q Now, looking at Page 7 here. In
25 discussing --

~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

1 MR. GARRARD: Wait a second. Were
2 you adding something?

3 THE WITNESS: No.

4 MR. GARRARD: Okay.

5 BY MR. NORTH:

6 Q In looking at Page 7 here, you
7 actually are reporting on studies that show
8 that with a native tissue surgery, there's a
9 29 percent reoperation rate; is that correct?

10 At the bottom of 6 going over to 7.

11 A I'm going to find the reference.

12 I use Reference 7 which is a report
13 by Drs. Olson and associates published in 1997
14 in Obstetrics and Gynecology. And I use that
15 reoperation rate.

16 Q And that indicated a 29 percent
17 reoperation rate after native tissue surgery;
18 is that correct?

19 A That is what it indicated.

20 Subsequently, that article has been reviewed
21 more significantly.

22 Of these women who were reoperated,
23 several were reoperated for recurrent prolapse.
24 Others were reoperated for the acquisition of
25 other complaints such as urinary incontinence.

1 So they may have been reoperated, but
2 not for correcting the previous concern, but
3 because of the acquisition of another
4 complaint.

5 Q Well, regardless of any
6 reinterpretation of that source, it was your
7 view at this time that even the most effective
8 treatments had significant failure rates; is
9 that correct?

10 A In these author's hands, yes, it did.
11 There's a difference between a
12 reoperation rate, which they indicated was
13 29 percent, and someone's returning with a
14 physical exam which isn't perfectly normal.

15 And the way we've come to know about
16 that -- there are a lot of ways we'd know about
17 it. One of the ways we've come to learn about
18 that is there are now reports in our literature
19 which describe the physical findings of women
20 over the course of decades of life.

21 So there are groups of women who have
22 been seen at -- in their 30s, 40s, 50s, 60s,
23 70s and 80s. Someone then has given a profile
24 of what are these examinations, how are they
25 described in women in each of these different

1 decades.

2 We know, for example, that women who
3 had children who are in their 50s and 60s do
4 not normally have perfect support in the
5 pelvis. It doesn't mean they're going to be
6 symptomatic or have surgery.

7 The analogy I would use for that,
8 which I think a patient would understand, is a
9 woman who is 60 or a man who is my age doesn't
10 look the same as an 18-year-old. Their pelvic
11 exam isn't the same as an 18-year-old. So
12 pelvic exams change as people change in age.

13 What we understand now, for example,
14 I'll use these patients we described with a
15 Grade 1 loss of support. That's something
16 halfway to the hymen.

17 It would be exceptional now for
18 someone to recommend any intervention for a
19 woman who has physical findings like that.

20 And in fact, most reports in the
21 literature currently that use the POP-Q, for
22 example, or the Baden-Walker, either one,
23 presume that women who have Stage 0 are things
24 that are at normal levels in the pelvis or
25 halfway to the hymen would be considered to

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 **have a normal pelvic exam.**

2 MR. NORTH: If you would mark this as
3 the next exhibit.

4 (Defendant's Exhibit 7 marked.)

5 BY MR. NORTH:

6 Q Regardless of what you believe the
7 recurrence rate was or is today with native
8 tissue surgeries, would you agree that in the
9 late 1990s and early part of the 2000s that the
10 belief was there was a significant recurrence
11 rate with native tissue surgery?

12 A There's a distinction that we made
13 between a physical exam and a reoperation rate.
14 So I believe that there are women who do not
15 have perfect outcomes following surgery, but
16 they're not reoperated..

17 And the number of women who have an
18 exam that wouldn't be called perfect is
19 certainly different than the number of women
20 who have an exam, have symptoms, and have
21 physical findings, all of which would suggest
22 that she's a candidate for repeat surgery.

23 Q Well, regardless whether you define
24 recurrence as symptoms or the need for
25 reoperation or anything in between, would you

1 agree that the consensus view was that there
2 was a significant recurrence rate after native
3 tissue surgery back during that time frame, the
4 late '90s, early 2000s?

5 MR. GARRARD: Object to the form of
6 your question insofar as the use of the term
7 "consensus view."

8 A What we reported, and we were one of
9 the early ones to identify this, describe it,
10 and give our personal experiences.

11 What we evaluated is various sites in
12 the pelvis. You'll see that in the chart of
13 the article you referred to about the editorial
14 on support defects.

15 We looked at specific sites in the
16 pelvis, the support for the urethra, the
17 bladder, the top of the vaginal canal, the
18 cul-de-sac and the rectum in an effort to
19 determine is there some specific part of a
20 reconstructive operation that is more or less
21 effective than another part of surgery.

22 When we looked at our 81 women who
23 had sacrospinous ligament suspension, for
24 example. Sacrospinous ligament suspension was
25 accepted, and still is, as a very effective

1 method for treatment of the top of the vaginal
2 canal or apical loss of support.

3 What we learned in reviewing our
4 patients is, in fact, it is very effective for
5 treatment of the top of the vaginal canal.

6 The anterior compartment, the support
7 for the bladder, is the area that is most
8 difficult to manage effectively from a surgical
9 standpoint.

10 What we know now is that other
11 physicians have identified the same thing.
12 When they critically look at their own outcome
13 from surgery and look at specific parts of the
14 pelvis, most skilled surgeons have very good
15 success with apical support, support in the
16 posterior compartment. The dilemma is in the
17 management of the anterior compartment in the
18 anatomy.

19 What we know now also is from looking
20 at large groups of women who have not had
21 surgery that, in fact, if you take all women,
22 examine them and describe the sites of the
23 pelvis where they're most likely to have poor
24 support, it's the anterior compartment of the
25 bladder.

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1 So women who had no surgery, that's
2 most likely to be the area that will have poor
3 support. Women who have had surgery, if they
4 have an area in the pelvis where the support is
5 sub-optimal, it is more likely to be the area
6 by the bladder than any of the other parts of
7 the pelvis.

8 We have shown that in sacrospinous
9 ligament suspension. What difference does that
10 make? It makes a difference because if you
11 identify something that doesn't work as well as
12 you would like it to work, you can then employ
13 a strategy to try to correct that, such as
14 modify your surgical technique.

15 In this case, what we chose to do is
16 use a different approach to the treatment of
17 prolapse with specific attention to the
18 anterior compartment.

19 The people that are advocates of
20 sacrospinous ligament suspension have modified
21 part of the way they manage the surgery in an
22 effort to reduce the persistence or recurrence
23 of tissue in the anterior compartment.

24 When you look at women who have been
25 evaluated after surgery, that's in one of the

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1 charts also in that editorial, you can review
2 several things. The anatomic outcome, the
3 functional outcome, the sexual outcome, the
4 quality of life.

5 But let's talk specifically about
6 surgery, for example. If you have an operation
7 for poor support, in your case it can be an
8 inguinal hernia, in a woman's case it may be
9 pelvic, poor support. For a doctor to provide
10 an effective operation, they have to know what
11 you have and employ a technique that is going
12 to be effective.

13 So in the outcome of hernia surgery,
14 the things that we look for are the cure and
15 the durability. Is it cured and how long does
16 it last.

17 At the six-weeks visit after surgery,
18 if a patient returns and their examination is
19 normal, you can infer that the person caring
20 for that patient saw what was the matter and
21 executed the procedure effectively to take care
22 of the issue.

23 If someone returns at six weeks and
24 their examination isn't normal, we'll use these
25 patients that you referred to in that chart of

1 mine.

2 At six weeks when the patients came
3 back, 94 percent of the women had a normal
4 exam. The inference is that we saw and
5 corrected what was the matter.

6 At a subsequent visit, more of these
7 women had poor support than they did at six
8 weeks. The implication for that is the
9 procedure wasn't durable. It wasn't that
10 something failed to be repaired, it either
11 wasn't durable, or in the case of sacrospinous
12 ligament suspension, the operation predisposed
13 the woman to some other loss of support.

14 We have several examples in GYN
15 surgery where one operation may dispose you --
16 predispose you to the acquisition of another
17 loss of support.

18 The six-week visit's helpful because
19 at the six-weeks visit you can make an estimate
20 did the doctor see and do what was appropriate.

21 If the six-week exam is abnormal, one
22 of several possibilities. The person did not
23 see properly and identify what should have been
24 corrected. They saw it and corrected it, but
25 it wasn't durable enough even to last six

1 weeks. They saw it and corrected it and there
2 was some perioperative event that predisposed
3 the operation not to work. Collection of blood
4 in the incision, suture materials that broke.
5 There are a variety of things that could
6 happen.

7 But the six-weeks visit is helpful to
8 sort out the technical aspects of was the
9 surgery performed correctly for the right
10 indication.

11 The longer term follow-up gives you a
12 much better clue about was this operation
13 durable. And if it isn't durable, why isn't it
14 and what can you do to try to make it more
15 durable.

16 Plastic surgery is a perfect example
17 because everyone can see it. If you know
18 someone who's had plastic surgery, for example,
19 in their face, which is the most obvious place
20 to see it, there's a recovery phase where
21 someone who's had plastic surgery doesn't want
22 to be seen in public because there's bruising,
23 swelling, tenderness, all of those things which
24 would go along with any surgical therapy.

25 Once they recover, ideally they're

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1 going to look differently than they did before.
2 If you see a woman or a man or a child who has
3 had plastic surgery at six months after
4 surgery, they may have a wonderful outcome.
5 When you see them five years later or some
6 other time in the future, the outcome isn't as
7 likely to be the same as it was in that early
8 perioperative period.

9 All surgery that is reconstructive in
10 nature has durability as an issue.

11 MR. NORTH: With all due respect,
12 Doctor, I'm going to object to the answer as
13 nonresponsive to the question.

14 BY MR. NORTH:

15 Q The question was very simple.

16 MR. GARRARD: And I think he answered
17 your question.

18 BY MR. NORTH:

19 Q In the early -- late 1990s, early
20 2000s, let me put it this way, did -- was the
21 belief or what was being shown in the medical
22 literature that the recurrence rates for native
23 tissue surgery were high?

24 A At the time you're asking me about,
25 the article referenced by Ambrose and Amanda

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Bobbie Shull, M.D.

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1 Clark in 1997, stimulated this concern about
2 reoperation rate for surgery.

3 Q Okay.

4 A As I've told you, the reoperation
5 rate was for more than prolapse.

6 Q Now, if you would look at Exhibit 7.
7 This is an article you wrote in 2005; is that
8 correct?

9 A Yes.

10 Q And what was this published in?

11 A The International Urogynecologic
12 Journal.

13 Q And your coauthor was Mickey Karram?

14 A That's correct.

15 Q And who is he or she?

16 A Mickey Karram is a physician in
17 Cincinnati who is specialized in treating --
18 evaluating and treating women who have
19 disorders of the pelvic floor.

20 Mickey has been editor of this
21 journal. He is not currently. He has been
22 editor of the journal. He has been president
23 of our major societies, and he is the director
24 for a fellowship program in female public
25 medicine and reconstructive surgery. And is

1 **the coauthor of what's considered to be one of**
2 **our standard texts in this field.**

3 Q And this article sort of generally
4 discusses the fact that there are new
5 technologies being introduced to the market
6 during this time frame in 2005 for the
7 treatment of pelvic organ prolapse, correct?

8 **A Yes.**

9 Q And some of those new technologies
10 would be the transvaginal mesh products for the
11 treatment of prolapse?

12 **A Yes.**

13 Q And in fact, towards the end or at
14 the very end of the article, you and Dr. Karram
15 state that: As a patient advocate, however, we
16 all must decide whether to embrace new
17 technologies or products early in their
18 development phase or to wait on appropriately
19 performed trials to understand the risks and
20 benefits of each procedure. These are the
21 decisions that we, as pelvic surgeons, will
22 have to make.

23 Correct?

24 **A That's exactly what it says.**

25 Q And the truth of the matter is that a

1 number of pelvic surgeons at that time frame
2 made the choice to use some of these new
3 technologies, correct?

4 **A Yes.**

5 Q And in fact, they have -- were used
6 in the 2005 to 2008 time frame, let's say,
7 fairly widely in the gynecological surgery
8 community, weren't they?

9 MR. GARRARD: Object to the form of
10 the question so far as you use the term "fairly
11 widely."

12 A They were used. I don't know the
13 percentage of patients who had reconstructive
14 surgery had a mesh product used or not.

15 BY MR. NORTH:

16 Q Fair enough, Doctor.

17 You would agree with me that a number
18 of surgeons that you respect in the
19 gynecological community throughout the country
20 have used these products, correct?

21 A I have a lot of associates and/or
22 friends who do the same thing that I do because
23 this is a relatively small number of physicians
24 in general.

25 There are multiple ways to do

1 everything. On one end of the spectrum, I and
2 a certain number of people primarily would use
3 native tissue surgery. On the other end of the
4 spectrum, there's someone who would be more
5 likely to use a product. And then there's
6 everything in between.

7 Q And there are people on the other end
8 of that spectrum in your rather narrow field
9 that you respect, correct?

10 A There are many.

11 Q Dr. Lucente, for example, he uses
12 these products, doesn't he?

13 A I can't tell you which ones. He's
14 been a spokesman for J&J and I don't know for
15 whom else, but --

16 Q Okay.

17 A -- yes.

18 Q And a number of your colleagues at
19 ACOG or AUGS, A-U-G-S, have used these products
20 over the years, correct?

21 A I'm sure they have.

22 Q Have you read the article A Time To
23 Rethink?

24 A I have.

25 Q And --

1 A By a group who are advocating for
2 more -- a slower approach to the FDA
3 recommendations on being concerned about mesh
4 products.

5 Q And in fact, the authors or signed --
6 people that have signed on to the Time To
7 Rethink article, see surgical benefits in the
8 use of these transvaginal mesh products, don't
9 they, in certain patients?

10 A I'm sure they do. I don't recall the
11 details of the article. But I'm sure they feel
12 that there are benefits to use of products in
13 particular cases.

14 Q And a number of the physicians that
15 have signed on or endorsed the Time To Rethink
16 are people that you respect in the field,
17 correct?

18 A I can't tell you who all signed on.
19 There are some of them I know I respect them.
20 There's some I don't know.

21 Q Other than the article we just
22 discussed, Exhibit 7, do any of your other
23 publications refer or discuss in any detail
24 transvaginal mesh products for the treatment of
25 prolapse?

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 A Yes. There is one that may not be in
2 my CV, although, I thought it was, relating to
3 The Perfect Storm.

4 Q The Perfect Storm?

5 A Yes.

6 Q Not the movie, I assume?

7 A Not the book. It's not about deep
8 sea fishing. Although, it could be.

9 Q Let's see, where did your CV go.

10 MR. GARRARD: There's a copy of it.

11 BY MR. NORTH:

12 Q Here, it is.

13 Could you point that out to me?

14 A I will if it's here. It isn't on
15 here. It was published in the last year or two
16 in the International Journal. Margaret
17 probably can find that if you would like to get
18 it. We'll have somebody get it and give it to
19 you. It's indexed.

20 Q It's called A Perfect Storm?

21 A I believe that's correct.

22 Q And published in the International
23 Journal of what?

24 A International Urogynecologic.

25 THE WITNESS: And I believe,

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 Margaret, it was in 2012.

2 MS. THOMPSON: Yeah, I have it.

3 THE WITNESS: If I'm not mistaken.

4 BY MR. NORTH:

5 Q Did you have any coauthors on that
6 article?

7 A Dr. Brubaker, I believe.

8 Q Brubeck?

9 A Brubaker, B-R-U-B-A-K-E --

10 Q Linda Brubaker?

11 A Yes.

12 Q Have you consulted with Dr. Brubaker
13 over the years?

14 A About what?

15 Q Anything in the practice of your
16 field.

17 A Well, Dr. Brubaker and I, one, are
18 good friends. Two, we work together in many
19 organizations. We have lectured together,
20 taught together, traveled together, discussed
21 patients together. I think the answer to that
22 would be yes. We've written articles together.

23 Q Dr. Brubaker is an advocate against
24 the use of transvaginal mesh for the treatment
25 of prolapse, correct?

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 A I don't know. Did she classify
2 herself as that? I haven't given her that
3 title.

4 Q She does not believe in the use of
5 transvaginal mesh for the treatment of
6 prolapse, does she?

7 A I don't know how her practice is with
8 that, frankly. I know that she probably
9 wouldn't use it commonly. I don't know if she
10 uses it at all. She has several associates.

11 MR. GARRARD: Here's the article if
12 you want it. We can get other copies made.

13 Do you want to take a second and get
14 other copies, Richard?

15 MR. NORTH: Yeah.

16 VIDEO TECHNICIAN: Want to go off the
17 record, sir?

18 MR. NORTH: Yes.

19 VIDEO TECHNICIAN: Stand by, please.

20 We're off the record. The time is

21 11:28.

22 (Recess taken.)

23 (Defendant's Exhibit 8 marked.)

24 VIDEO TECHNICIAN: We are back on the
25 record. The time is 11:30.

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 You may continue.

2 BY MR. NORTH:

3 Q Dr. Shull, while we took that brief
4 break, we came up with the -- found a copy
5 through Margaret of the other article you
6 published regarding transvaginal mesh products?

7 A Yes.

8 Q And it's called A Perfect Storm?

9 A Yes.

10 Q And it was -- you were a co-author
11 with Linda Brubaker?

12 A Yes.

13 Q And this was published in 2012?

14 A Published online November 16th, 2011.
15 The hard copy was in 2012.

16 Q When were you first retained to be an
17 expert witness in this litigation?

18 A I think the first time Margaret and I
19 talked was April or May of 2012. Because I
20 have one letter that came sometime in May.

21 THE WITNESS: So I think I must have
22 talked to you in April, maybe.

23 MR. NORTH: Is -- she can't answer
24 the questions on the record.

25

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 BY MR. NORTH:

2 Q Prior to that, did you have any
3 conversations with Margaret or with Mr. Garrard
4 or anybody from his firm about possibly getting
5 involved in the litigation?

6 A No. In truth, I wasn't even familiar
7 that litigation --

8 Q Now --

9 A -- was going forward.

10 Q Okay, fair enough.

11 Is it correct that the article we
12 discussed a few moments ago, Exhibit 7, and
13 then this article, Exhibit 8, are the only two
14 publications you have regarding transvaginal
15 mesh products, correct?

16 A Yes.

17 Q Now, in looking through Article 8, it
18 appears that the position taken by you and Ms.
19 -- or Dr. Brubaker was that the use of
20 transvaginal mesh products can be effective in
21 the hands of very highly skilled surgeons, but
22 may not be effective or may be prone to
23 complications in the larger surgical population
24 or surgical troops?

25 A Are you asking me is that in this

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1 article?

2 Q Yeah.

3 A May I read it just a moment --

4 Q Sure?

5 A -- and then I'll answer that for you.

6 (Witness reviews document.)

7 I believe what Linda and I stated is,
8 we could assume that there are a group of
9 people who maybe are able to use mesh-based
10 procedures effectively, understand the
11 complications of how to manage them, and would
12 know which population of women would be
13 suitable candidates. I think that's what you
14 asked me.

15 Q Yes.

16 Are you familiar with Dr. Patrick
17 Culligan?

18 A Yes.

19 Q Do you respect him as a gynecological
20 surgeon?

21 A Yes.

22 Q What about Dr. Neeraj Kohli?

23 A Yes, I know him.

24 Q Do you respect him as a
25 urogynecological surgeon?

1 **A Yes.**

2 MR. GARRARD: You asked him a
3 question if he had any other articles on mesh,
4 there is another article on mesh.

5 A Oh, I beg your pardon, I was thinking
6 about the editorial. I beg your pardon.

7 BY MR. NORTH:

8 Q Mr. Garrard just indicated to us that
9 you had a third article on mesh, and this is
10 entitled A serious complication following
11 placement of posterior Prolift, correct?

12 A **That's accurate.**

13 Q And this is a case report regarding a
14 single patient?

15 A **That's accurate.**

16 Q And it involves Prolift, which is the
17 Johnson & Johnson mesh implant?

18 A **Yes.**

19 Q It was published in 2009?

20 A **Yes.**

21 Q What was the complication there?

22 A **In this particular patient, she is a,**
23 **I believe, 32- or 34-year-old woman. I haven't**
24 **read that recently. She's a young woman who**
25 **was referred to our practice with rectal**

1 bleeding.

2 On examination, she was found to have
3 a fistula between the rectum and the vagina.
4 It was noted to have a mesh product that had
5 eroded into the rectum.

6 In this particular circumstance, I
7 personally called the office of the surgeon who
8 had performed the primary surgery, I did not
9 speak to that surgeon because he was out, but I
10 spoke to one of his colleagues and was told
11 that Prolift was used and that this particular
12 physician had used Prolift as a product of
13 choice for prolapse.

14 I believe the surgery had been done
15 -- I believe in the same calendar year, but I
16 would have to read the article again to see. I
17 don't know that for a fact.

18 So the woman had a
19 laparoscopically-assisted hysterectomy. She
20 had a mesh kit procedure for prolapse and then
21 developed a rectovaginal fistula requiring
22 removal of the mesh, and ultimately several
23 operative procedures.

24 Q Okay. With the addition of this
25 third article to the mix, is that now all of

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1 the articles you've ever published with regard
2 to transvaginal mesh products?

3 A I believe it is, and I apologize for
4 not remembering that. There is an article
5 which we have published that doesn't involve
6 our placing mesh transvaginally. It will come
7 when my new CV comes.

8 There's an article involving 25
9 patients in my practice who had prolapse of the
10 vagina following an abdominal sacral colpopexy.

11 We operated on those women
12 transvaginally. In approximately half of them
13 we could identify the mesh from the sacral
14 colpopexy, it was still attached to the sacrum,
15 was not attached to the vagina. And we left
16 that mesh in place, placed sutures in it and
17 used it as a part of the suspensory mechanism
18 for the corrective surgery which I did.

19 The concept behind that case series
20 was to describe our experience with women who
21 had failed an operation which is felt to be
22 reliable, and all surgeries have a failure
23 rate. That the failure frequently occurs where
24 the mesh is detached from the vagina, not the
25 sacrum. And if you can identify the mesh and

1 it's in place, not infected, it could become --
2 it could become a part of the suspensory
3 mechanism.

4 THE WITNESS: If that's my updated
5 CV, that should be...

6 MR. NORTH: No, it's not.

7 MS. THOMPSON: No.

8 MR. NORTH: Could you mark this as
9 Exhibit 8 -- or, I guess, we're at 9?

10 THE COURT REPORTER: Uh-huh.

11 MR. NORTH: Yeah, 9, please.

12 (Defendant's Exhibit 9 marked.)

13 A There's an article you've asked me
14 about before regarding the Prolift.

15 MR. NORTH: This is the one he's
16 talking about Prolift.

17 A The Prolift.

18 Is a single patient. And the reason
19 we reported that is because we felt that the
20 complication was significant enough that it
21 warranted general knowledge about it.

22 BY MR. NORTH:

23 Q And we have now marked as Exhibit 9
24 there the Prolift article you were discussing,
25 correct?

1 **A Yes.**

2 **Q And then you mentioned a fourth**
3 **article that concerns mesh that you've seen**
4 **when you're going in for a surgery on certain**
5 **patients.**

6 **A Yes. And it's not related to a**
7 **complication of mesh, it's related to patients**
8 **referred to me who had had a sacral colpopexy,**
9 **they had a recurrence of their prolapse, they**
10 **wanted to have further surgical therapy. I**
11 **chose to operate on vaginally. In about half**
12 **of those women, I could use the existing mesh**
13 **as a part of the reconstructive surgery.**

14 **Q None of these four articles that**
15 **refer to mesh specifically deal with Avaulta**
16 **mesh, correct?**

17 **A That's accurate.**

18 **Q And none of these articles deal with**
19 **any product manufactured by Bard to your**
20 **knowledge?**

21 **A There are no ar -- there are no**
22 **products named in the two editorials. Prolift**
23 **is identified in the case report. And in the**
24 **series of sacral colpopexy failures, no**
25 **products were mentioned by name on that because**

1 **I don't -- I didn't know the names of the**
2 **products.**

3 Q Now, to your knowledge, have we now
4 discussed all of your publications with regard
5 to mesh products for the treatment of pelvic
6 organ prolapse?

7 A **I hope so.**

8 Q Okay.

9 MR. GARRARD: Do you need to look at
10 the new CV?

11 MR. NORTH: Well, he can always --

12 MR. GARRARD: Well, I'm just -- we
13 may --

14 MR. NORTH: -- add something. I'm
15 just asking to his knowledge now.

16 BY MR. NORTH:

17 Q Let's talk a little bit about your
18 retention in this case as an expert witness.

19 Now, I certainly understand -- you
20 know, appreciate your expertise as an OB-GYN
21 and in the gynecological surgery area. But I
22 want to see if we can be clear about areas
23 where you're not an expert. And I asked you
24 about your training and expertise in some of
25 these areas earlier.

1 But would you agree that you are not
2 an expert in developing warnings and labels for
3 medical devices?

4 A I have never developed a warning or a
5 label. I don't intend to do that. And I don't
6 know the process for doing it, so I would not
7 claim to be an expert in that area.

8 Q And you are not an expert in the
9 design of medical devices, are you?

10 A No, I've never designed a device.

11 Q And you are not an expert in
12 biomaterials?

13 A No.

14 Q And are you an expert in
15 biocompatibility?

16 A No.

17 Q And are you an expert in materials
18 manufacturing?

19 A No.

20 Q Are you an expert in the
21 manufacturing processes for medical devices?

22 A No.

23 Q And we talked about your training in
24 pathology. Would you consider yourself an
25 expert in pathology?

~In Re: Avaulta~

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1 **A No.**

2 Q Would you consider yourself an expert
3 in toxicology?

4 **A No.**

5 Q Would you consider yourself an expert
6 in the marketing of products?

7 **A No.**

8 Q Would you consider yourself an expert
9 in the marketing of medical devices?

10 **A No.**

11 Q Do you deal with sales
12 representatives from various medical device
13 manufacturers as a part of your practice?

14 **A Sometimes.**

15 Q Do you deal with any medical device
16 or any sales representative from Bard?

17 **A Can you tell me what dealing with
18 means?**

19 Q With any type of product.

20 **A Do I sit down and discuss the
21 products with them?**

22 Q Uh-huh.

23 **A Perhaps I have. I certainly wouldn't
24 do it with any frequency.**

25 Q Do you know the name of any Bard

1 sales representative assigned to your facility?

2 A No. If you gave me someone's name, I
3 may recognize it. I would not be able to tell
4 you someone's name.

5 Q Okay. Well, as you sit here today,
6 do you have a specific recollection of having
7 sat down and talked with a Bard sales
8 representative in the past?

9 A Regarding?

10 Q Any Bard products.

11 A I don't know the answer to that. I
12 may have, but I cannot tell you when or what
13 the product was.

14 Q Do you consider yourself an ethicist?

15 A Can you tell me what that means?

16 Q An expert in ethics.

17 A Well, I don't lecture in it. I feel
18 that I know the concepts of what it is to be
19 ethical and use them in my practice.

20 Q But you have no particular training
21 in that, do you?

22 A I have not had a specific education
23 in ethics. We are required in Texas to have so
24 many continuing medical education hours per
25 year that relate to the ethics of medicine to

1 maintain our license. And I believe it is one
2 or two hours per year of continuing medical
3 education that is related to the ethics of
4 medicine.

5 Q Do you consider yourself an expert in
6 regulatory affairs?

7 A No.

8 Q Do you consider yourself an expert in
9 FDA procedures and processes?

10 A No.

11 Q Are you an engineer?

12 A No.

13 Q Have you ever conducted any testing,
14 other than the visual observation of explanted
15 material on any transvaginal mesh implant for
16 the treatment of prolapse?

17 A No.

18 Q Have you ever done any comparative
19 study with -- between the various
20 manufacturers' transvaginal mesh implants?

21 A No.

22 Q Have you ever seen a product that you
23 knew to be Avaulta Plus?

24 A Yes.

25 Q And what was the context of that?

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 A I saw the prepackaged product, opened
2 the package, felt the product, looked at it,
3 handled it, but I haven't implanted it in
4 anyone.

5 Q And have you done the same with the
6 Avaulta Biosynthetic and the Avaulta Solo
7 products?

8 A I've looked at all of -- yes, I've
9 looked at all of those.

10 Q Were those products furnished to you
11 by the Plaintiffs' attorneys in this
12 litigation?

13 A Yes.

14 Q Prior to your involvement in this
15 litigation, and having seen those products as
16 furnished to you by the attorneys, had you ever
17 seen the Avaulta products that you know of?

18 A That's a very good question. I can't
19 tell you the answer to that for sure, because I
20 probably have.

21 And the reason I would say that is
22 that at the majority of the professional
23 meetings I go to, vendors are present and
24 demonstrating what they have.

25 So I frequently go by the vendor

1 stands to look at what they have to sell, to
2 read their information or to talk to someone
3 who is there to describe it.

4 So, even though I can't tell you the
5 circumstances of which I did see it, I believe
6 that that would be true because I normally make
7 an effort at the meetings to go by and see what
8 each company has.

9 Q So you believe you may have seen the
10 product before because it is your general
11 practice to stop by manufacturers' booths at
12 trade organizations -- or at organizational
13 meetings and for you to just see what they have
14 to offer right now?

15 A Yes.

16 Q But as you sit here today, do you
17 have a specific recollection of having done
18 that with the Avaulta products?

19 A No.

20 Q After being furnished the products by
21 the Plaintiffs' attorneys in this litigation to
22 look at, have you had any other occasions
23 subsequently to look at those products?

24 A No.

25 Q Now, when you looked at those

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1 products, you didn't do any testing of any sort
2 on them, did you?

3 A No.

4 Q Did you read the instructions for use
5 that came with the product?

6 A Yes.

7 Q Remind me what your fee is for your
8 services.

9 A The fee that I'm being paid now is
10 \$500 an hour.

11 Q Did you bring your billing records
12 with you?

13 MR. GARRARD: We have.

14 A No.

15 MR. GARRARD: We have them.

16 MR. NORTH: Can I see them?

17 A No, they have them, I don't have
18 them.

19 MR. NORTH: My colleague, Ms. Cohen,
20 thinks you are purposefully hiding all of these
21 billing records.

22 MR. GARRARD: She sees worms under
23 every rock.

24 MR. MOELLER: Please strike that from
25 the record. I don't want to be any part of

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1 that.

2 (Off-the-record discussions.)

3 MR. NORTH: Can you mark this as the
4 next exhibit?

5 (Defendant's Exhibit 10 marked.)

6 MR. GARRARD: Do you want to mark the
7 flash drive that we gave y'all?

8 MR. NORTH: We will.

9 MR. MOELLER: Yeah, I don't want to
10 be the custodian of that.

11 MR. GARRARD: I don't want you to
12 either.

13 MR. NORTH: Why don't you mark this
14 as No. 11.

15 (Defendant's Exhibit 11 marked.)

16 (Off-the-record discussions.)

17 BY MR. NORTH:

18 Q Let me show you what's been marked as
19 Exhibit 10 to your deposition, Dr. Shull. Is
20 that a complete copy of your billing records
21 thus far --

22 A Yes.

23 Q -- in this litigation?

24 A Yes, it is.

25 Q Let's go through those a moment. And

1 you said your rate was \$500 an hour, correct?

2 **A That's accurate.**

3 Q Your initial bill was for -- on June
4 4 for \$3750, correct?

5 **A That's accurate.**

6 Q So what was that approximately, seven
7 hours?

8 **A It would be seven and one half hours.**

9 Q And then your next bill was on
10 July 27th and that was for 1,460, correct?

11 **A That's accurate.**

12 Q And how many hours was that for?

13 **A 2.92.**

14 Q 2.92 hours, okay.

15 MR. GARRARD: Richard only bills in
16 half hour increments, Doctor.

17 MR. MOELLER: Thought it was full.

18 MR. GARRARD: Huh?

19 MR. MOELLER: Full hours only.

20 BY MR. NORTH:

21 Q On August 23, you submitted an
22 invoice for \$11,875; is that correct?

23 **A Yes.**

24 Q And how many hours was that for,
25 Doctor?

1 **A 23.75.**

2 Q And then on October 15 you submitted
3 an invoice for 8,250; is that correct?

4 **A That's accurate.**

5 Q And how many hours did that reflect?

6 **A 16.5.**

7 Q So if I am computing this correctly,
8 by October 15 you had billed for 50.77 hours,
9 does that sound correct?

10 **A I didn't do the arithmetic, but I**
11 **trust you did.**

12 Q That's dangerous to trust me with
13 math.

14 But I believe that is correct. Does
15 that sound about right?

16 **A It's about right. I'll be glad to**
17 **add it if you would like me to.**

18 Q And your report was submitted on
19 October 15 of 2012, correct?

20 **A I cannot give you the exact day.**
21 **Yes, in mid-October. I don't remember the**
22 **exact day.**

23 Q So is it fair to say, Doctor, that
24 prior to the submission of your report in this
25 case, you had spent roughly 50 hours reviewing

1 the documents provided to you by the
2 Plaintiffs' attorneys, reviewing the medical
3 records of the various Plaintiffs that you have
4 received, meeting with the Plaintiffs'
5 attorneys on several occasions, and finalizing
6 your report in this case?

7 **A That's accurate.**

8 Q How many times did you meet with the
9 Plaintiffs' attorneys prior to October 15 of
10 2012?

11 **A At least six times according to this**
12 **-- these invoices.**

13 Q And when you --

14 **A I don't know if there's another, but**
15 **I see six times.**

16 Q And when you would meet with the
17 Plaintiffs' attorneys, you would charge for the
18 time that you spent meeting with them, correct?

19 **A That's accurate.**

20 Q And at the times you met with them,
21 you didn't actually review these documents
22 while you were meeting with them, did you? Or
23 did you?

24 **A We may have referred to them.**

25 Q But --

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1 **A Are you asking did we simply talk**
2 **with one another without the -- looking at any**
3 **records?**

4 Q No. I guess what I'm saying is, you
5 didn't go through these documents one by one
6 during those meetings, did you?

7 **A No, that wasn't the purpose of**
8 **meeting with them. I did that preparation in**
9 **advance.**

10 Q Okay. And then to complete your
11 billing records, I believe that on December 10
12 you billed \$4,000, which I assume would be
13 eight more hours, correct?

14 **A That's accurate.**

15 Q And then on January 21 you billed
16 9,875?

17 **A That's accurate.**

18 Q And how many hours would that
19 reflect?

20 **A 19.75.**

21 Q And how much time have you spent on
22 this matter since January 21?

23 **A That's a good question. I was on**
24 **holiday in Hawaii for one week. I spent part**
25 **of my time there reviewing records. I spent**

1 yesterday here and today. And a few hours on
2 Monday at my house. So I don't -- I haven't
3 added all of that up.

4 Q Are you -- have you been designated
5 as an expert witness in any other litigation
6 regarding mesh?

7 A No.

8 Q Other than the attorneys representing
9 the Plaintiffs in this case -- well, and first,
10 tell me which attorneys have you spoken to
11 about this litigation.

12 A This specific litigation?

13 Q Yes.

14 A I've spoken to Mr. Garrard.

15 Q Right.

16 A Dr. Thompson. Mr. Mueller and
17 Mr. Matthews.

18 Q Okay.

19 A I don't think there's anyone else.

20 Q Have you spoken with any of the other
21 experts retained by the Plaintiffs in these
22 cases?

23 A No.

24 Q Have you reviewed any of the other
25 experts' reports in this case?

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1 **A The depositions, not the reports.**

2 **Q Which depositions of experts did you**
3 **review?**

4 **A Dr. Raybon, Dr. Miklos, Dr. Kaminski,**
5 **Dr. Margolis, Dr. Nutt, Dr. Barber, Dr. Barbee,**
6 **Dr. Visco. I'm trying to remember if there was**
7 **someone else.**

8 **Q Well, let me just ask this. Have you**
9 **reviewed the deposition of Dr. Altenhofen?**

10 **A I don't recognize that name.**

11 **Q Dr. Carroll?**

12 **A No.**

13 **Q Dr. Loving?**

14 **A No.**

15 **Q Dr. Hoyte?**

16 **A No.**

17 **MR. NORTH: H-O-Y-T-E.**

18 **BY MR. NORTH:**

19 **Q Dr. Brennan?**

20 **A No.**

21 **Q Dr. Zolnoun, Z-O-L-N-O-U-N?**

22 **A No.**

23 **MR. GARRARD: Richard, to save you**
24 **time, he hasn't been furnished the depositions**
25 **of any experts that we have engaged.**

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1 MR. NORTH: Okay.

2 MR. GARRARD: He has reviewed the
3 treating and implanting doctors' depositions
4 that he told you about, and there may be
5 another one or two that he didn't list.

6 BY MR. NORTH:

7 Q Have you spoken with any of those
8 doctors that treated the Plaintiffs?

9 A No.

10 Q Have you spoken with any of the
11 Plaintiffs in this litigation?

12 A No, I've never met one.

13 Q Have you ever spoken besides -- other
14 than a possible conversation with the Bard
15 sales representative assigned to the Temple
16 territory, have you ever spoken with a Bard
17 employee before?

18 A Unless it would be at one of these
19 meetings where someone who is representing the
20 company at a national meeting and I wouldn't
21 have remembered who or where, so I could have
22 then.

23 Q But you don't have a specific
24 recollection of having done so?

25 A No.

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1 Q What about with regard to Sofradim?

2 A No.

3 Q What about with regard to Tissue
4 Sciences Laboratories?

5 A No.

6 Q Did you read any depositions of Bard
7 employees taken in this litigation?

8 A I read excerpts -- I must have read
9 excerpts from something because they're in the
10 report. I don't know if that's -- if one of
11 those was from a deposition or if that was all
12 e-mail.

13 I don't remember seeing a deposition
14 from a Bard employee. And I don't believe that
15 any of these references came from a deposition.
16 I guess you would know that better than I.

17 MR. GARRARD: He has looked at some
18 employee depositions and they're reflected in
19 his report.

20 BY MR. NORTH:

21 Q Were you furnished entire copies of
22 the depositions or only excerpts of them?

23 A That's a good question. I don't know
24 the answer to that. I don't remember having an
25 entire deposition from anybody from Bard.

1 MR. GARRARD: He did have whole
2 copies.

3 THE WITNESS: Whose was that? I
4 don't remember that.

5 MR. GARRARD: Well, you had -- I can
6 think of right now Orr and --

7 BY MR. NORTH:

8 Q Oh, the depositions you were
9 provided, are they here in front of you?

10 MR. GARRARD: I'm sorry, what
11 was your question?

12 A Are you asking me about the physician
13 treaters and whatnot?

14 BY MR. NORTH:

15 Q No, I'm asking about Bard employees.
16 Where would those depositions be?

17 A I don't know the answer to that.

18 MR. GARRARD: They're on the flash
19 drive, aren't they? They're on the flash
20 drive.

21 MR. NORTH: I'm going to remove the
22 sticker for just a minute.

23 THE COURT REPORTER: I'll remember
24 it.

25 MR. GARRARD: Keep your eye on him.

1 MR. NORTH: Just one second, Doctor.

2 If I could ask, counsel, Doctor, in
3 particular, would the depositions have been
4 produced as pdfs on here?

5 MS. THOMPSON: Probably.

6 MR. GARRARD: I've got them right
7 here. Would it assist you if I told you which
8 one's, Richard?

9 MR. NORTH: Yeah. I mean, under what
10 file are they? I'm seeing the Plaintiffs.

11 MR. GARRARD: Under -- they were the
12 ones that was furnished to him, David
13 Ciavarella, Jennifer Gordon Mercuri, Jim Ross,
14 John Knorpp and Robert Orr.

15 MR. NORTH: I'm just trying to figure
16 out where they are.

17 MS. THOMPSON: They're under -- I
18 think they're under Bard depos if you see that.

19 MR. GARRARD: This is how they're
20 listed on mine. Is that how it would be?

21 MR. NORTH: On this flash drive there
22 is nothing called Bard depos. There are files
23 called Bard Plaintiff depos, Bard treater
24 depos. I've looked at both of those, the
25 employees are not there. There's another file

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Bobbie Shull, M.D.

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1 called photos, and then there are a list of
2 pdfs.

3 MS. THOMPSON: Let me check that out
4 for you. I'll be right back.

5 MR. NORTH: Mr. Garrard, could you
6 read on the record again the depositions of
7 Bard employees that you gave to Dr. Shull.

8 MR. GARRARD: I sure will. Do you
9 see a category titled Full Cited Depositions on
10 there?

11 MR. NORTH: Uh-uh.

12 MR. GARRARD: No. Well, then we've
13 got a transfer problem on that thing, I guess.

14 It's Ciavarella, Jennifer Gordon
15 Mercuri, Jim Ross, John Knorpp, and Robert Orr.

16 MR. NORTH: Ciavarella, Mercuri, Orr,
17 Knorpp.

18 MR. GARRARD: Ross.

19 MR. NORTH: And Ross.

20 MR. GARRARD: Uh-huh.

21 A Actually, I remember reading Dr. Ross
22 when you asked me about Bard employees, I
23 believe. I guess I didn't associate Dr. Ross
24 with a Bard employee.

25 BY MR. NORTH:

1 Q Right, and that's -- fair enough.

2 Did you review these depositions
3 electronically or did you have hard copies of
4 them?

5 A I had -- everything that I had in
6 this report, 26, came in hard copy. With the
7 -- when I told you I looked at the deposition
8 for the treating doctors, I started off on hard
9 copy. But then I sat down and looked at them
10 on -- electronically instead because the books
11 were too big.

12 Q Well, you were furnished a hard copy
13 of the employee depositions at some point, the
14 ones that Mr. Garrard just listed or do you
15 recall?

16 A Well, did I have the whole thing? I
17 don't -- I don't remember the answer to that,
18 if I have their whole deposition or not.

19 Q Do you recall anything specific from
20 Dr. Ciavarella's deposition?

21 A If I look back at what I read, I
22 will. Without looking at the record. Do you
23 have something specific you would like me to --

24 Q No, I'm just -- as you sit here,
25 without looking at anything, is there anything

1 that comes to mind specifically about
2 Dr. Ciavarella?

3 MR. GARRARD: Object to your -- I
4 object to your question in form. He's got a
5 lengthy expert report where he has mentioned a
6 number of things, including Ciavarella.

7 I don't think that's a fair question
8 to say, as you sit here, do you remember
9 something.

10 MR. NORTH: Well, you can ask that
11 with the courts.

12 MR. GARRARD: If you need to look at
13 your report, Doctor, look at your report.

14 A I'm happy to look at that and then
15 see if there's something --

16 BY MR. NORTH:

17 Q Well, I don't need to look at that.
18 I just need you to answer the question.

19 MR. GARRARD: Well, he can look at
20 his report if it assists him in answering the
21 question.

22 BY MR. NORTH:

23 Q Well, he can answer the question
24 correctly, if the question is, without looking
25 at your report, do you recall anything

1 significant from Dr. Ciavarella's deposition?

2 MR. NORTH: You can object to it as
3 unfair and take it up with the court, but it's
4 a fair question in my view.

5 MR. GARRARD: I do object to it as an
6 unfair question without him having the
7 opportunity to look at his report.

8 A I believe that I remember something
9 about him, but I cannot tell you all of the
10 details. I believe that Dr. Ciavarella would
11 be one who had questions about the safety and
12 efficacy of the products, and one of the
13 discussions about the development of a product.

14 BY MR. NORTH:

15 Q But you've never spoken with him?

16 A I wouldn't know him if he came in.

17 Q You were not shown the deposition of
18 Dr. Scott -- I mean, of Mr. Scott Britton, were
19 you?

20 A I don't believe I was.

21 Q And you weren't shown the deposition
22 of Laura Bigby?

23 A I don't think so.

24 Q And you weren't shown the deposition
25 of Adam Silver?

1 **A I don't believe so.**

2 Q And you weren't shown the deposition
3 of Tad Nations?

4 **A I don't believe so.**

5 Q You weren't shown the deposition of
6 Melissa Johnson?

7 **A I recognize that name. I don't know**
8 **that I saw her deposition.**

9 Q The only depositions you've seen are
10 the ones that Mr. Garrard and Dr. Johnson
11 showed you, correct?

12 **A You mean Dr. Thompson?**

13 Q I'm sorry, Dr. Thompson.

14 **A I believe that would be true.**

15 Q And they selected the depositions to
16 show you, correct?

17 **A I presume they did.**

18 Q I mean, you didn't come up with a
19 list of the employees yourself that you wanted
20 to see their depositions, did you?

21 **A No.**

22 Q Okay. As a part of your work in this
23 case, have you gone back and looked at any
24 regulations put out by the FDA that might
25 govern these products?

1 **A The 510(k) -- I've looked at the form**
2 **for 510(k) submission.**

3 Q And that was given to you by the
4 Plaintiffs' attorneys, correct?

5 **A Yes.**

6 Q Have you looked at any regulations
7 from the FDA, though?

8 **A I have not gone to an FDA website or**
9 **obtained any information from the FDA regarding**
10 **how to submit a proposal or what's included or**
11 **the process for it.**

12 Q Well, the FDA regulations go beyond
13 how to submit a proposal. So have you looked,
14 as a part of your work at this case, at any
15 regulations put out by the FDA that might be
16 applicable to this product?

17 **A No.**

18 Q Have you reviewed the 2008 and 2011
19 public health notifications put out by the FDA?

20 **A Regarding?**

21 Q Pelvic mesh products.

22 **A The warnings about pelvic mesh**
23 **products?**

24 Q The public health notification.

25 **A Yes, I have.**

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1 Q Had you read those before you became
2 involved in this litigation?

3 A Yes.

4 Q Have you -- you did not attend the
5 advisory panels' meetings and hearings
6 regarding these products in September of 2011,
7 did you?

8 A I did not.

9 Q And have you read any transcript from
10 those hearings?

11 A No.

12 Q Are you familiar with the difference
13 under the FDA's processes between a 510(k) and
14 a PMA?

15 A I don't think I could describe the
16 differences to you for that.

17 Q Do you know what Bard was required by
18 the FDA to show in order to get clearance to
19 market the Avaulta products?

20 A I believe in general for 510(k)s any
21 company has to show that the requested product
22 or device is substantially similar to a
23 predicate device.

24 So Bard had to find one or more
25 predicate devices that were substantially

1 similar to the product they hoped to market and
2 agree that their proposed product was
3 substantially similar to these predicate
4 devices.

5 Q What is your understanding of when
6 the initial Avaulta product, Avaulta
7 biosynthetic product was first introduced to
8 the market?

9 A You're asking me what time?

10 Q Yes.

11 A I think about 2005 or '6.

12 Q In 2005, there were already
13 transvaginal mesh products for the treatment of
14 pelvic organ prolapse on the market from other
15 companies, correct?

16 A Yes.

17 Q And there were actual kits, correct?

18 A Yes.

19 Q And were there trocar-based kits on
20 the market at that time from other companies?

21 A Yes.

22 Q Were there kits or mesh implants with
23 arms on the market at that time?

24 A I believe that every kit with a
25 trocar has an arm or there wouldn't be a

1 **trocar.**

2 Q So by the time the Avaulta
3 Biosynthetic was introduced to the market there
4 were predicate devices already being sold,
5 correct?

6 A **There were products with trocars**
7 **being sold, that's correct.**

8 Q We talked about the -- your
9 observation of Avaulta mesh in the past.

10 Have you ever looked at Avaulta under
11 a microscope?

12 A **No.**

13 Q Have you ever measured its pore
14 sizes?

15 A **No.**

16 Q And I believe you told us you'd done
17 no testing with mesh before, so you've never
18 done any degradation testing, have you?

19 A **No.**

20 Q Elasticity studies?

21 A **No.**

22 Q Shrinkage studies?

23 A **No.**

24 Q Do you -- or what is your
25 understanding of the FDA's requirements with

1 regard to clinical studies before a product is
2 introduced to the market?

3 MR. GARRARD: Object to the form of
4 your question unless you delineate what type of
5 products you're talking about.

6 What kind of product you talking
7 about, Richard, because there's a difference?

8 MR. NORTH: I just want his general
9 understanding.

10 MR. GARRARD: Well, no, you need to
11 tell him what kind of product you're talking
12 about. Are you talking about drugs, are you
13 talking about mesh?

14 MR. NORTH: You can make an objection
15 to the record.

16 MR. GARRARD: Well, I am making the
17 objection, but, Richard, you need to tell him
18 what type product you're talking about because
19 there's a difference.

20 BY MR. NORTH:

21 Q What's your understanding of what the
22 FDA requires with regard to clinical studies
23 prior to the introduction of a product to the
24 market?

25 MR. GARRARD: Objection to the form

1 of your question unless you define what you're
2 talking about in terms of a product because
3 that makes a difference.

4 MR. NORTH: Your objection's noted.

5 A Or if they're pharmaceutical items,
6 they are, to the best of my knowledge, rigid
7 requirements for testing pharmaceutical agents
8 that go through a variety of efficacy and
9 safety studies, including human information
10 before they're approved to be sold.

11 In the case of products such as a
12 surgical product, there are different classes
13 of products. Some require very little
14 information. A trocar, for example, may be in
15 a class that requires very little information
16 about it except, perhaps, the technical
17 description of it and, perhaps, something about
18 its composition.

19 Then as the classification of
20 products increases, I believe this is true from
21 one, two, or three, there are progressively
22 more requirements for collecting and reporting
23 information on indications, complications,
24 management, safety, efficacy, and whatnot.

25 BY MR. NORTH:

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1 Q With regard to medical devices, do
2 you know what percentage of medical devices go
3 through clinical studies before they're
4 introduced to the market?

5 A **No.**

6 Q Do you know with regard to medical
7 devices whether more products go through
8 clinical studies or don't go through clinical
9 studies before they're introduced to the
10 market?

11 A **I do not know that.**

12 Q Do you know whether Bard was required
13 to conduct clinical studies on Avaulta before
14 introducing it to the market?

15 MR. GARRARD: Required? In terms of
16 the form of your question, required by what
17 or whom?

18 BY MR. NORTH:

19 Q By FDA rules and regulations.

20 A **Do you mind repeating the question**
21 **for me?**

22 Q Do you know whether Bard was required
23 under FDA regulations to perform clinical
24 studies on Avaulta before it was introduced to
25 the market?

1 A I do not know that. My presumption
2 is if they're using the predicate device as the
3 mechanism for getting the clearance, that there
4 may have been no requirements.

5 Q How long do you believe it would have
6 taken to conduct a clinical study of Avaulta,
7 or do you know?

8 A I can answer that in general. It
9 depends on what you would like to know about
10 it. So depending on the knowledge you hope to
11 acquire, there would be varying time intervals.

12 If it's a question about indications
13 and patient selection, that may take a shorter
14 time period.

15 If there are questions about the
16 morbidity associated with the operation itself
17 or the morbidity in the first six weeks
18 following surgery, that would take a relatively
19 defined time period depending on the number of
20 patients required for you to draw conclusions
21 from.

22 If you're talking about the long-term
23 consequences of a product, in this case we have
24 previous information from reports on sacral
25 colpopexy, for example, which teaches us that

1 some of the adverse outcomes or adverse events
2 are a function of time. And some of the
3 adverse events never go away. And it's a
4 question of how frequently they occur as the
5 duration of time increases.

6 So let's use sacral colpopexy as an
7 example. There are some cases where you can
8 tell immediately on a perioperative morbidity
9 or mortality, but the long-term information on
10 exposure, erosion, bleeding, and whatnot, it
11 takes years to acquire.

12 So to answer your question about
13 Avaulta. Depending on the information that
14 someone thinks is appropriate to know, it could
15 take a long time and a lot of patients to learn
16 that.

17 Q Do you know whether clinical studies
18 were performed on the Johnson & Johnson TVT
19 sling or the Boston Scientific stress urinary
20 incontinence implant you used before the time
21 you began using them?

22 A Before the time I began using
23 tension-free vaginal tapes by Johnson &
24 Johnson, the product had been cleared for sale
25 in the U.S. for about five years.

1 I do not know what was required prior
2 to the clearance of the product, but I know
3 that the reason I waited to use the product is
4 that in a 5-year interval there were reports
5 about its safety and efficacy which had been
6 published.

7 Plus, I had the opportunity to talk
8 to a number of people around the world who had
9 experience using the product.

10 And my entire reason for waiting as
11 long as we did was to learn more about that
12 because in the history of gynecology
13 specifically there have been a number of
14 products introduced during my practice lifetime
15 which have unintended consequences and the
16 products have been met with a great deal of
17 enthusiasm. And after a certain time period
18 that enthusiasm diminishes.

19 And in fact, some of the products are
20 no longer available. In the case of urinary
21 incontinence, for example, we already had
22 examples of that with Protogen. So we knew
23 that there could be unintended consequences of
24 products. And before that, Gortex used for a
25 sling.

1 So we already had examples of
2 procedures being advocated, enthusiasm being
3 generated, and then reality setting in where
4 the enthusiasm died off significantly.

5 IUDs, for example, were taken off the
6 market entirely because one particular product
7 had unintended consequences.

8 So based on all of those things, I
9 was interested in waiting until more
10 information was available.

11 Q But do you specifically recall
12 whether or not there was -- had been clinical
13 studies performed by the time you began using
14 the J&J stress urinary incontinence product or
15 by the time you started using the Boston
16 Scientific product?

17 MR. GARRARD: Objection, asked and
18 answered.

19 A I know that there were case series,
20 surgeon experience, there were cohorts of
21 patients that were followed.

22 I don't remember the year the article
23 was published by Paul Hilton and his associate
24 comparing the Burch colposuspension to the
25 tension-free vaginal tape looking at morbidity

1 and efficacy. That occurred sometime in early
2 2000s. So it would have been about the time
3 that we began using the product.

4 BY MR. NORTH:

5 Q Do you know if -- can you identify
6 any randomized controlled trials that were
7 performed on the Johnson & Johnson or Boston
8 Scientific products before the time you started
9 implanting them?

10 A No, I do not know that.

11 Q When did you first start performing
12 native tissue surgery?

13 A I did my residency from 1968 to 1973.
14 I began getting opportunities to operate during
15 the residency program during my second and
16 third and fourth years. So that would have
17 been in 1971, '2 and '3.

18 Q At the time you first began
19 performing native tissue surgeries, were there
20 randomized controlled trials published
21 concerning that surgical technique?

22 A I'm trying to think if there's even
23 another situation where that could have
24 occurred, because there were various types of
25 native tissue repairs, but there weren't

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1 repairs people were routinely doing with any
2 supplemental tissue. So the answer to that is
3 no.

4 MR. GARRARD: We've been going for
5 about an hour and 45 minutes.

6 MR. NORTH: Yeah, I'm ready to go. I
7 was just waiting for lunch.

8 VIDEO TECHNICIAN: Stand by, please.

9 And we are off the record. The time
10 is 12:25. This is the end of Tape 2.

11 (Lunch recess.)

12 VIDEO TECHNICIAN: And we are back on
13 the record. The time is 1:09. This is the
14 beginning of Tape 3 of the videotape deposition
15 of Dr. Robert Shull.

16 You may continue, sir.

17 BY MR. NORTH:

18 Q Dr. Shull, we were talking about
19 testing before we took our lunch break.

20 In reading your report, I gather that
21 you are critical of Bard's animal testing on
22 its products?

23 A Yes.

24 Q Are you aware of what testing was
25 done on the Sofradim Avaulta product?

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1 **A** Do you have something specifically in
2 mind that I should -- you're asking about?

3 **Q** No, I'm just asking, did you read
4 anything about the testing done on the Sofradim
5 Avaulta product?

6 **A** Not animal testing, no.

7 **Q** And you did not read the deposition
8 of Dr. Michel Therin from Sofradim?

9 **A** No, I didn't.

10 **Q** What is your understanding of what
11 types of animal tests were performed on the
12 Avaulta Plus and Solo products?

13 **A** That in rats and rabbits, pieces of
14 the material were implanted into the abdominal
15 wall of the rat. And the rabbit, there could
16 have been something in the vaginal canal. I
17 can't remember about the rabbit.

18 And then in the sheep, there were
19 four sheep that were studied. And each of
20 those -- well, and the ones in the abdominal
21 wall, for example, they clearly would have been
22 placed without trocars.

23 I don't believe that any animal study
24 tested the kit as a unit.

25 **Q** Is that your principal criticism of

1 animal studies, is that they did not study the
2 entire kit in your view?

3 A There are several reasons to be
4 concerned. That would be one.

5 Another is there's a limited amount
6 of information that can be gathered on an
7 animal study. Mainly, the information the
8 investigators collect relate to the body's
9 reaction to the implantation of a foreign
10 material.

11 The material is implanted and then at
12 some point in time it's explanted and the
13 animal may or may not be sacrificed.

14 They're looking at qualities of wound
15 healing, inflammatory changes, scar formation,
16 other issues about which we'd be interested in
17 clinical practice, for example, regarding
18 effects on valve function, bladder function,
19 sexual function, pain, quality of life.

20 Obviously, those can't be obtained in
21 any animal model.

22 But a part of the concern is also
23 testing the product without the entire system
24 is a major concern.

25 Q Doctor, is it fair to say that your

1 criticisms of the animal studies is that they
2 did not provide sufficient information in your
3 view as opposed to any inherent flaw in the
4 protocol or design of the study?

5 A Are the study designs flawed? It
6 depends on what you want to know. So I'm not
7 judging the study based on the study itself
8 being performed improperly.

9 Can the study provide information
10 that's clinically helpful is a whole different
11 issue.

12 Q Did you review any animal studies of
13 the Johnson & Johnson TVT sling or the Boston
14 Scientific incontinence product you used before
15 you began using those products?

16 A I did not.

17 Q Did you read the protocols for the
18 Bard animal studies?

19 A I'm trying to remember if I read any
20 of the protocols. I don't believe I did.

21 Q Did you read the published reports of
22 the studies?

23 A I read -- I'll have to look in my
24 files and see specifically what I read. And
25 I'm not sure I have all of those with me.

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1 MR. MOELLER: Do you want to concede
2 or stipulate he did not review those?

3 MR. GARRARD: I'm sorry?

4 MR. MOELLER: Do you want to concede
5 or stipulate he did not review the --

6 MR. GARRARD: No, I think he did
7 review them.

8 MR. MOELLER: Oh, you think he did.
9 I'm sorry.

10 A I'm looking for the reference here.

11 MR. MOELLER: Sorry about that. I
12 was trying to expedite things.

13 MR. GARRARD: I know what you were
14 trying to do.

15 A I'm looking for the reference harder
16 so I can try to answer your question
17 specifically.

18 MR. GARRARD: May I hand it to him,
19 Richard?

20 MR. NORTH: What?

21 MR. GARRARD: I've got the one he
22 reviewed if I may hand it to him without you
23 getting upset.

24 MR. NORTH: Okay, this one time I'll
25 let you testify for him.

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1 MR. MOELLER: Did we figure out if
2 our USB drive is complete or not?

3 MR. NORTH: It is.

4 MR. MOELLER: Oh, it is complete.

5 MR. NORTH: Uh-huh. I found -- well,
6 I found those depositions on there.

7 MR. MOELLER: Oh, you found it.
8 Okay.

9 MR. NORTH: He gave me -- they're
10 pdfs and he gave me the key numbers on them.

11 MR. MOELLER: I gotcha.

12 BY MR. NORTH:

13 Q Mr. Garrard just handed you a
14 document, Dr. Shull; is that correct?

15 A Yes, he did.

16 Q Do you know what a Bates number is,
17 the stamp at the bottom left-hand side on the
18 first page?

19 A I believe that the Bates number is --

20 Q Right. Could you read that --

21 A -- on the lower right-hand --

22 Q -- for the record.

23 A On the lower right-hand, capital
24 AVA2E0066011.

25 Q Can you tell us what that document

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1 Mr. Garrard handed you is?

2 **A The title is A Novel Mesh/Tissue**
3 **Combination for vaginal prolapse in a sheep**
4 **model, a pilot study.**

5 Q Before Mr. Garrard handed that to
6 you, do you recall seeing that document?

7 A Yes. I was simply trying to find it
8 so I could answer your question specifically.

9 Q Did you read that document prior to
10 submitting your report in this case?

11 A Yes.

12 Q Do you recall seeing any other test
13 reports?

14 A Regarding? Did I -- did I see test
15 results regarding what?

16 Q That performed by Bard on the Avaulta
17 products.

18 A I did not read the reports on the rat
19 studies.

20 Q Did you read the report on the rabbit
21 studies?

22 A I did not.

23 Q So you read the sheep study but not
24 the rabbit and rat studies performed by Bard in
25 the development of the Avaulta products?

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1 **A That's correct.**

2 Q And based on your previous testimony,
3 it's my understanding that you have never
4 yourself created a protocol for an animal study
5 for a device; is that correct?

6 **A That's accurate. That's correct.**

7 Q In your report you state that there
8 was no scientific basis for Avaulta, the
9 concept, and that the mesh with arms and use of
10 trocars represented a radical departure from
11 previously described grafts.

12 Do you recall that?

13 MR. GARRARD: Could you tell me which
14 page you're referring to, please.

15 MR. NORTH: Pages 7 and 8 and 9.

16 MR. GARRARD: Thank you.

17 A At the bottom of Page 7, what I said:
18 At the time the Bard Avaulta Biosynthetic
19 product was introduced, there was no credible
20 scientific evidence that supported utilization
21 of an armed, transvaginally placed
22 polypropylene mesh. In fact, questions
23 regarding the safety and efficacy were already
24 apparent prior to the introduction of the
25 Avaulta Biosynthetic and the Avaulta Plus and

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1 Solo products.

2 BY MR. NORTH:

3 Q And then look over on Page 9. There
4 you describe the concept as a radical
5 departure, correct?

6 MR. GARRARD: Doctor, you certainly
7 can look at Page 9, but read whatever you need
8 to.

9 A I'm looking for that on 9, those
10 words.

11 Yes, I see it.

12 These products and the procedures
13 required for their use represented a radical
14 departure from previously described grafts used
15 in the pelvis, which had been used only in very
16 select cases.

17 BY MR. NORTH:

18 Q But I think you previously admitted
19 or told me that Bard's Avaulta was not the
20 first product introduced to the market for
21 transvaginal use that involved mesh with arms
22 in the use of trocars, correct?

23 A I did. I also -- you didn't ask me
24 if they were a radical departure either, you
25 just asked me if someone else had used them.

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1 Q So you believe all of these kits were
2 a radical departure?

3 A Yes.

4 Q But you agree that Bard's was not the
5 first kit like that on the market?

6 A Bard is not the first one.

7 Q In your report you also state in that
8 section that questions regarding safety and
9 efficacy with regard to Avaulta were already
10 apparent by the time the product was
11 introduced.

12 What is your basis for that?

13 A If I could read the context of that.

14 At the time the Bard Avaulta
15 Biosynthetic product was introduced, there was
16 no credible evidence -- scientific evidence to
17 support utilization of an armed, transvaginally
18 placed polypropylene mesh.

19 In fact, questions regarding the
20 safety and efficacy of the referenced item,
21 polypropylene and armed mesh products, was
22 apparent prior to the introduction of the
23 Avaulta Biosynthetic and the Avaulta Plus and
24 Solo.

25 The basis for that is what you asked

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1 me.

2 Q Yes.

3 A The basis was on conversations with
4 other physicians who were seeing patients with
5 complications, on case reports, on discussions
6 at scientific meetings, and on observation of
7 patients who had had surgery with mesh
8 products.

9 Q Were you aware of things like that as
10 of 2005?

11 A Yes.

12 Q So by the year 2005, you had already
13 determined that the safety and efficacy of
14 transvaginal kits for the treatment of pelvic
15 organ prolapse, that there was questions about
16 their safety and efficacy?

17 A Yes.

18 Q When did you first make that
19 determination?

20 A I think I told you earlier that on
21 several occasions I was invited to sit in on
22 roundtable discussions as J&J and perhaps
23 someone else was interested in developing
24 products to use mesh for prolapse repair.

25 And at the time those groups met, I

1 raised these very issues, placing a synthetic
2 material in a clean contaminated field, of
3 using trocars through spaces where we normally
4 would not operate, of the possibility of
5 injuries to structures we can't see, of how you
6 could identify to manage an intraoperative
7 complication, and what the long-term outcomes
8 would be based on our knowledge specifically of
9 sacral colpopexy.

10 Q Can --

11 A So...

12 Q Oh.

13 MR. GARRARD: Finish your answer.

14 THE WITNESS: That's it.

15 BY MR. NORTH:

16 Q Can you cite me any article, medical
17 article in the literature prior to 2005 that
18 raised safety or efficacy concerns about these
19 transvaginal mesh kits?

20 A Can I give you one now with a title
21 and reference, no. Can I find one? I'll be
22 happy to look for one and tell you about it.

23 Q But just so I'm clear, as you sit
24 here right now, you cannot name an article that
25 predates 2005 and questions the safety and

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1 efficacy of these kits?

2 A I do not have the author or the
3 reference for that, that's correct.

4 Q Have you seen anything that indicated
5 to you that Bard had questions about the safety
6 or efficacy of the Avaulta kits prior to 2005
7 when they were introduced to the market?

8 A Have I seen a document where these
9 questions were raised by employees of Bard?

10 Q Yeah, prior to 2005.

11 A I see on Page 13 in my report,
12 beginning at the bottom of Page 12, Known
13 problems with polypropylene should have alerted
14 Sofradim and Bard to potential problems with
15 its use in the vagina.

16 Q I'm sorry, read that again or tell me
17 where you are.

18 A I'm at the bottom of Page 12,
19 beginning of Page 13. Known problems with
20 polypropylene should have alerted Sofradim and
21 Bard to potential problems with its use in the
22 vagina.

23 It appears that, as early as 2003,
24 Sofradim knew there were problems with
25 polypropylene mesh. In a document from

1 May 2003, polypropylene -- then the various
2 trade names, Prolene, Marlex, SURGIPRO, Atrium
3 -- when compared to polyester, was described as
4 "more rigid and more aggressive with the
5 tissues (a barbed wire), undoing when being
6 stretched..."

7 And you can read the remainder of
8 that.

9 And it's referenced in Item No. 27
10 using the Bates code.

11 A Sofradim document from 2004,
12 touting a new polyester mesh product, stated,
13 "Surgeons have used polypropylene mesh as a
14 reinforcement device, but the material is known
15 to shrink, contract, and stiffen. Because --"

16 Q I don't mean to interrupt you,
17 Doctor, but I see where you're talking --
18 reading -- you're just reading the report on
19 Page 13, correct?

20 A Yes, that's correct.

21 Q Other than from documents given to
22 you by the Plaintiffs' attorneys, do you have
23 any other evidence that Bard and/or Sofradim
24 had reason to question the efficacy or safety
25 of the Avaulta products prior to their launch

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1 on the market?

2 A So you mean, in addition to the ones
3 I've cited already, are there other
4 documents --

5 Q No.

6 A -- to suggest there are questions of
7 safety and efficacy?

8 Q That wasn't my question.

9 Do you have any evidence that Bard
10 and -- or Sofradim employees were questioning
11 the safety and efficacy of these products prior
12 to their introduction other than from the
13 documents that the Plaintiffs sent you to
14 review?

15 A Prior to the Plaintiffs sending me
16 the documents, I had access to none of the Bard
17 or Sofradim documents.

18 Q So the sole basis -- I guess this is
19 my question. The sole basis for your opinion
20 in that regard is the documents provided to you
21 by the Plaintiffs' attorneys?

22 A No, it isn't. It's using judgment
23 acquired over a lifetime of treating patients
24 who have various disorders and being somewhat
25 objective about being concerned about the

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1 introduction of any type of care into patient
2 practice.

3 A procedure that involves placing a
4 synthetic permanent material into a
5 contaminated field raises legitimate concerns
6 on the question of -- in this case should raise
7 questions with the manufacturer, the marketer,
8 and ultimately to the physician.

9 So, I don't have a document that says
10 that.

11 Q Now, this section of your report
12 cites the French HAS study from November of
13 2006, correct?

14 A Yes, it does.

15 Q Had you ever seen that study before
16 it was provided to you by the Plaintiffs'
17 attorneys?

18 A No, I had not.

19 Q Had you ever seen any reference to
20 that prior to the Plaintiffs' attorneys
21 providing that to you?

22 A No, I had not.

23 Q Do you have any evidence, Dr. Shull,
24 that Bard was aware of that study or that
25 publication?

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1 **A** **No, I don't.**

2 **Q** Do you know what the purpose of that
3 study or that publication was?

4 **A** **I was not involved in its production**
5 **or publication. In reading it, I would presume**
6 **the purpose was to highlight concerns about the**
7 **use of mesh so that the people who were**
8 **producing, marketing, selling and using mesh**
9 **would be aware there had been questions that**
10 **had been raised.**

11 **Q** Now, is that just an assumption on
12 your part?

13 MR. GARRARD: Object to the form of
14 the question. Is what just an assumption?

15 BY MR. NORTH:

16 **Q** The purpose of that -- I mean --

17 **A** **No one who wrote the article -- no**
18 **one who published the article has corresponded**
19 **with me about the -- the intention.**

20 **Q** Do you know what the French HAS, what
21 its purpose is?

22 **A** **No, I do not.**

23 **Q** Do you know whether it's a government
24 entity or a private entity?

25 **A** **I do not.**

1 Q Do you know whether its task or sort
2 of purpose is to assess whether new
3 technologies or devices utilized in patients in
4 France would be -- will be reimbursable under
5 the French National Healthcare Plan?

6 A I don't know the answer to that. And
7 I don't know about the French National
8 Healthcare Plan in general.

9 Q So while you cite the French study,
10 you do not know the exact context of why that
11 publication was published or whether Bard knew
12 about it; is that correct?

13 A I cite that publication because it
14 raises -- it provides information and raises
15 legitimate questions be answered, not just by
16 the French, but by anyone who's interested in
17 safety and efficacy of a product.

18 So the questions that they have posed
19 are not geographically limited to France.

20 Q But you weren't aware of that until
21 given to you by the Plaintiffs' attorneys,
22 correct?

23 A That's accurate. I was not aware of
24 this publication. I was aware that the issues
25 which are raised are in one sense common sense

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1 **issues.**

2 MR. MOELLER: What page do you cite
3 that, sir?

4 MR. NORTH: It's 8, Page 8.

5 THE WITNESS: Page 8.

6 MR. MOELLER: Page 8, okay, thank
7 you.

8 THE WITNESS: Yes. It is numbered --
9 would you like me to give you the number?

10 MR. NORTH: No, we've got that.

11 MR. MOELLER: Thank you.

12 BY MR. NORTH:

13 Q Are you aware of studies in the
14 literature in the 2004-2005 time frame that
15 found good results with the use of transvaginal
16 mesh kits?

17 A I am not aware of any studies in
18 2005. If you mean a scientific study, I'm
19 aware of no scientific study of use of mesh
20 kits in 2005 that provided information about
21 their safety or efficacy.

22 Q What's an H-shaped mesh product?

23 A Do you mind telling me what you're
24 referencing here? Is there some reference in
25 my report?

1 Q I've just seen that phrase before,
2 H-shaped mesh products. Does that have any
3 significance to you?

4 A My assumption would be that it is a
5 product that if you looked at it in certain
6 directions, it would appear to be similar to
7 the letter H. Which would mean that there's
8 something in the center and there are two
9 perpendicular sides to it. And the something
10 in the center could be equal to or unequal to
11 the two things on the side.

12 That's not a term I've used, I don't
13 believe.

14 Q Based on your report, it appears that
15 you intend to give testimony of opinions
16 regarding certain properties of the mesh
17 material used in the Avaulta product; is that
18 correct?

19 A Can you tell me where I'm referencing
20 that?

21 Q Well, do you intend to give opinions
22 regarding the propensity, if any, of the
23 Avaulta mesh to shrink, shrinkage of the mesh?

24 A If I'm asked and I believe what I've
25 indicated here, if I'm asked, I will say that I

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1 believe it's the responsibility of the
2 manufacturer to know these qualities not only
3 in the laboratory, but in the patient herself.

4 Do I intend to say that I know about
5 the properties in the laboratory? I do not.

6 Q So you are unable to say from your
7 own personal knowledge or experience whether
8 the mesh used in any of the Avaulta products
9 shrinks or does not shrink; is that correct?

10 MR. GARRARD: Object to the form of
11 your question. That's not what he said.

12 BY MR. NORTH:

13 Q Well, regardless is my question.
14 Answer -- you can answer that question.

15 A There are several ways to evaluate
16 systems that are used in the body. One is
17 called an in vitro test, one is an in vivo
18 test.

19 In vitro implies in a lab setting.
20 Some of the qualities of a product can be
21 tested through certain textile parameters, for
22 example, mechanical stress and strain, size,
23 weave, microscopic appearance.

24 That product then is exposed to
25 something else, the deployment of the product,

1 its reaction in the body, the body's healing
2 process around it, that becomes an in vivo
3 evaluation.

4 The in vitro qualities can be used to
5 predict what may happen in vivo. However, the
6 actual knowledge of what's going to happen
7 can't be acquired until the proposed product
8 that's been testing in a lab has in fact been
9 implanted in someone, in someone is alive and
10 able to report information which is valuable to
11 be known and physical examination can be done
12 to detect what particular qualities you hope to
13 learn.

14 So the lab testing and the final
15 performance in a patient would not be the same
16 thing.

17 Q My question --

18 A So I'm telling you I am not
19 purporting to be an expert in the lab. I am
20 purporting to be an expert physician who has
21 seen women who have had surgery and have had
22 various outcomes from surgery.

23 Q But I'm focused right now on one
24 aspect of the mesh.

25 A Right.

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1 Q Can you give an opinion one way or
2 the other as to whether Avaulta mesh, the mesh
3 in any of the Avaulta products shrinks?

4 A Based on the records we received, it
5 could shrink anywhere from 10 to 50 percent.

6 Q You're basing that on a document you
7 read that was furnished to you by the
8 Plaintiffs' attorneys, correct?

9 A That's accurate.

10 Q You've done no independent assessment
11 of that?

12 A I have not tested any Avaulta
13 product.

14 Q And you're not qualified to test
15 Avaulta products to determine their rate of
16 shrinkage, if any, are you?

17 A I would say my only qualification and
18 testing of products in general, not
19 specifically Avaulta, would be seeing women who
20 have had mesh products implanted and examining
21 them and learning about the characteristics of
22 their exam after they've had a product
23 implanted.

24 Q But you've never seen an Avaulta
25 explant that you were able to specifically

1 identify shrinkage in, correct?

2 A I have not seen an Avaulta explant
3 that I saw before it was implanted and observed
4 it, made any measurements, and then measured it
5 again after it had been explanted.

6 Q Now, as far as contracture of mesh
7 goes, any opinions you offer on the contracture
8 of mesh are not things you've personally
9 observed, correct?

10 MR. GARRARD: Object to the form of
11 your question.

12 A The things that I have said about the
13 change in the configuration of the mesh is
14 based on my observation of mesh products which
15 have been removed, and my observation of
16 products that I have seen either at scientific
17 meetings where someone's marketed it or I've
18 seen it in the package or I myself have used a
19 mid-urethral sling, for example, and seen a
20 product before it's implanted.

21 So I have knowledge of seeing what
22 products look like before they're put in the
23 body and I have knowledge of seeing products
24 when they've been explanted.

25 BY MR. NORTH:

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 Q But you've never seen that
2 specifically with regard to the mesh in an
3 Avaulta product, have you?

4 A I have not specifically quantified an
5 Avaulta product which has not been implanted
6 and followed that particular patient or any
7 other patient and taken an Avaulta product and
8 made an assessment of it specifically.

9 Q And because you haven't done that,
10 you can't say that you've ever seen a piece of
11 mesh from an Avaulta product that has shrunk or
12 contracted, correct?

13 MR. GARRARD: Object to the form of
14 the question.

15 A I can say that I've seen a piece of
16 Avaulta mesh or other mesh products that does
17 not look the same as a product that is in the
18 package or has been removed from the package
19 but not implanted into anyone.

20 BY MR. NORTH:

21 Q And you would expect a product to
22 look different once it had been implanted in
23 the human body and removed, wouldn't you?

24 A There are lots of differences that
25 could occur. There are some that are very

~In Re: Avaulta~

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1 obvious about being blood stained, for example.
2 Others are more concerning about the change in
3 the configuration, the gross configuration, the
4 softness, the ability to move it, hold it.

5 Q Well, here's what I'm trying to
6 understand. You keep referring to Avaulta and
7 other mesh products. I want to ask you this
8 question specific to Avaulta.

9 A Uh-huh.

10 Q As you sit here today, can you
11 identify any past time when you saw a change in
12 Avaulta mesh after if had been explanted, a
13 change from after the explant compared to
14 pre-implant?

15 A Every explant that I have seen, every
16 explant that I have removed, does not appear
17 similar to any product I have seen prior to its
18 implantation. None of them look the same.

19 Q But with regard to Avaulta products
20 and only Avaulta products, do you have a
21 recollection of how the Avaulta explants looked
22 different from the pristine version of the
23 mesh?

24 A Rigid, irregular surfaces with scar
25 tissue around it.

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 Q What patient was that removed from,
2 do you know?

3 MR. GARRARD: Doctor --

4 A If I knew that, I couldn't tell you.

5 MR. GARRARD: I was fixing to say
6 don't violate HIPAA.

7 BY MR. NORTH:

8 Q On how many occasions did you see an
9 Avaulta explant in that condition?

10 A I think when you asked me before
11 about the number of patients I have operated to
12 remove Avaulta, you asked if it would be 10 or
13 less, and I said I think that would probably be
14 right.

15 Q Have you ever done any studies
16 regarding pore size in mesh and how it
17 contributes to the scar formation or any other
18 phenomena?

19 A I personally have not done any test.
20 I have read about it, but I haven't done any of
21 the tests myself.

22 Q Other than what you may have read in
23 the documents provided by the Plaintiffs'
24 attorneys in this case, have you read any other
25 things in the past about pore sizes in

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 polypropylene mesh?

2 A Yes, frequently. Because the number
3 of scientific meetings I attend, the subject
4 matter of using materials in reconstructive
5 surgery is addressed.

6 And in fact, I've given talks about
7 it myself using the various classifications,
8 the Amid, A-M-I-D, classification, the
9 macroporous, microporous. I'm familiar with
10 all of that.

11 However, I haven't personally done
12 any of that testing.

13 Q Do you know how the pore size of the
14 Avaulta mesh products differs, if it does, from
15 the pore size of the transvaginal mesh kits
16 that were on the market by the time Avaulta was
17 introduced?

18 A I do not.

19 Q Have you done any comparative studies
20 of the pore size on Avaulta products with the
21 pore size on other products?

22 A I have not.

23 Q Do you know whether the pore size in
24 the Avaulta mesh is larger or smaller than the
25 pore size on the TVT sling you used by Johnson

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 & Johnson?

2 **A I do not know that.**

3 **Q Have you ever measured the pore size**
4 **on the Johnson & Johnson?**

5 **A I have not.**

6 **Q You offer some opinions critical of**
7 **the pore size in the Bard mesh, the Avaulta**
8 **mesh in your report?**

9 **A Could you give me the reference and**
10 **then I'll be happy to read that.**

11 **If I look at Page 14, the beginning**
12 **paragraph: Bard knew that re size is critical**
13 **to the proper function of surgical mesh.**
14 **Adequately sized pores allow ingrowth of**
15 **tissue, fight bacteria, and prevent**
16 **scarification. Bard documents show the company**
17 **recognized the need to have large pores to**
18 **avoid contraction and what is described as**
19 **"scar plate formation."**

20 **Q But --**

21 **A I have that referenced.**

22 **Q Yes.**

23 **All of your information regarding the**
24 **size of Bard's -- the pore size of Bard's**
25 **Avaulta mesh comes from the documents provided**

~In Re: Avaulta~

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1 to you by the Plaintiffs' attorneys in this
2 case; is that correct?

3 A That's accurate.

4 Q And, again, you've done no
5 independent assessment of that?

6 A I did not document that, in fact,
7 these documents came from Bard to Mr. Garrard
8 and his associates. So I guess it's possible
9 that someone else's documents were sent to him
10 and labeled as Bard, but I'm presuming these
11 were Bard documents in his possession which he
12 gave to me.

13 Q What do you understand to be
14 degradation in a polypropylene mesh product?

15 A Degradation means the product itself
16 would begin to lose some of its integrity and
17 doesn't have the same characteristics that it
18 had initially.

19 Q Have you ever personally observed
20 degradation in an Avaulta mesh product?

21 A This is a microscopic appearance, and
22 the answer is I have not looked at the products
23 microscopically.

24 Q So you can't say whether you've seen
25 degradation in an Avaulta mesh product or not?

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 A I haven't seen it microscopically.

2 Q And therefore, because you haven't
3 seen it microscopically, you can't say whether
4 you've seen it at all, correct?

5 A I can say that I have not seen it
6 microscopically. That is not the same as
7 saying it doesn't happen. I'm telling you I
8 have not seen it microscopically and it's a
9 microscopic observation, not a gross
10 observation.

11 Q Right.

12 And you can't see it unless you do
13 look at it microscopically, correct?

14 A It would depend on the phase of
15 degradation. So if -- if you waited a long
16 enough time until the product itself changed
17 gross physical characteristics, you would be
18 able to see it. But not -- at an early stage
19 you would not be able to see that with the
20 naked eye.

21 Q Do you know why shrinkage occurs in
22 polypropylene mesh?

23 A The most commonly accepted reason for
24 that is when mesh is put in place, first of
25 all, it may be deformed when it's deployed,

1 when the mesh arms are deployed.

2 So, if I give you an example of
3 something being as wide as my little finger,
4 for example, and it has a woven pattern,
5 depending on the direction of pull, I may be
6 able to change the physical characteristics of
7 that product simply by pulling on it.

8 So some of the changes can occur when
9 in this particular case the product is deployed
10 into a patient.

11 I've observed that, for example, in
12 using mid-urethral slings, that the
13 configuration of the product may change once
14 you have passed a trocar and removed the
15 protective sleeve.

16 In the case of the remainder of
17 changes with contraction or shrinkage, if the
18 deployment doesn't cause any change in the
19 surface area or the configuration, when the
20 fibroblast grow into the interstices of the
21 product and scar formation occurs, scars
22 generally contract.

23 And when they contract, they will
24 possibly pull on the fibers of the mesh and
25 change the configuration to make the mesh

1 shorter, more rigid, and ostensibly change the
2 pore size.

3 The pore size that is done before the
4 product is deployed is a very static
5 measurement. Once wound healing has occurred,
6 that product has changed its configuration and
7 possibly the pore size will change. It would
8 be unlikely it will get larger. If it changes,
9 it would normally be smaller.

10 Q Dr. Shull, you told us earlier you've
11 never worked for a medical device company.
12 Have you ever run your own company of any sort?

13 A I have a business with my daughter
14 and son-in-law which is unrelated to medicine.
15 And I haven't run that, but I have been the
16 signator on the mortgage for the business.

17 Q The financier?

18 A That's not to be confused with
19 running it.

20 Q What sort of business is that?

21 A I'm actually president of CIA, LLC.
22 Culinary Institutes of America. Not the
23 Central Intelligence Agency.

24 Q And what kind of business is that in?

25 A Restaurant.

~In Re: Avaulta~

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1 Q How many -- well, do you have any
2 active managerial role in that company?

3 A If they don't pay the mortgage, I do.

4 Q Other than financing, do you have any
5 role there?

6 A No.

7 Q How many employees does that company
8 have?

9 A That varies. Full-time employees,
10 I'm guessing they have 10 to 15.

11 Q Is that company subject to FDA
12 regulations?

13 A I don't think so.

14 Q Have you ever been involved in
15 running any other company?

16 A No.

17 Q Have you ever had to make decisions
18 on how to run a company in compliance with
19 federal regulations?

20 A I've sat on the board of trustees of
21 our hospital, so the truth is many of our
22 responsibilities relate to compliance issues,
23 for example, compliance with various agencies.

24 I don't remember specifically the
25 Food & Drug Administration, but governmental

~In Re: Avaulta~

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1 **agencies, yes. All medical facilities are**
2 **responsible to a variety of governmental**
3 **agencies.**

4 Q Have you ever served on the board of
5 directors of a medical device company?

6 A **No, I have not.**

7 Q Have you ever served on the board of
8 directors of any publicly held company?

9 A **No, I have not.**

10 Q Other than the board of trustees for
11 your clinic, have you ever served on any board?

12 A **No. I've served on the board for our**
13 **clinic physician organization and for our**
14 **hospital, so those two, but no other.**

15 Q And you've never spoken to anyone at
16 Bard as to why they decided -- or as to why
17 they made the decisions they did with regard to
18 clinical studies, correct?

19 A **I haven't spoken to anyone about**
20 **that.**

21 Q And your sole basis for any knowledge
22 regarding decisions made with regard to
23 clinical studies comes from the documents
24 provided to you by the Plaintiffs' attorneys?

25 MR. GARRARD: Wait a second.

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 Do you mean as to Bard?

2 BY MR. NORTH:

3 Q As to Bard.

4 A Do you mind asking me the question
5 again?

6 Q The sole basis of your knowledge
7 regarding Bard's decisions with regard to
8 clinical studies and the Avaulta products comes
9 from the documents provided to you by the
10 Plaintiffs' attorneys and that limited number
11 of Bard employee depositions provided to you;
12 is that correct?

13 A That's correct.

14 Q And the same thing would be true as
15 to the decision making that went into the
16 drafting of the instructions for use with
17 regard to the product; is that correct?

18 MR. GARRARD: I'm sorry. I wasn't --

19 A I don't believe I received any
20 information --

21 MR. GARRARD: Wait, wait, wait, wait.

22 Would you just ask that again because
23 I didn't understand your question.

24 BY MR. NORTH:

25 Q The sole basis of your knowledge with

1 regard to Bard's decision making as to the
2 instructions for use for the Avaulta products
3 comes from the documents provided to you by the
4 Plaintiffs' attorneys and the number of
5 employee depositions they provided you?

6 A I do not believe there's anything in
7 the documents I have received that goes into
8 the decision making by Bard to create an
9 information for use document.

10 I have read the document. I have not
11 read the process which Bard used to produce the
12 document.

13 Q A number of your opinions in your
14 report seem to suggest the motivation or the
15 intent of Bard employees in doing certain
16 things. Would you agree with that?

17 MR. GARRARD: Object to the form of
18 your question.

19 A My report suggests what I have read
20 about Bard's interest in working with Sofradim,
21 the predicate product which Sofradim had helped
22 to develop, about the subsequent discussions
23 about safety and efficacy of the products.

24 I read information from territorial
25 managers, salespeople, and physicians who have

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1 used the products.

2 Is that what you're asking me about?

3 BY MR. NORTH:

4 Q And a number of those opinions or
5 statements you make in your report attributes
6 certain intentions or motivations to Bard
7 and/or its individual employees, would you
8 agree with me that?

9 A Could you give me an example of that?
10 I'd be happy to address the specific one if you
11 could tell me what it is.

12 Q I'll tell you what, since we'll be
13 coming back a second day, and so I don't bog
14 this down, I will have that ready for the
15 second day.

16 A Okay.

17 MR. GARRARD: Can I have a personal
18 privilege for just one second?

19 MR. NORTH: What's that?

20 MR. GARRARD: Can I have a personal
21 privilege for just one second?

22 MR. NORTH: Absolutely.

23 VIDEO TECHNICIAN: We're off the
24 record. The time is 2:00.

25 (Recess taken.)

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 VIDEO TECHNICIAN: We are back on the
2 record. The time is 2:02.

3 You may continue, sir.

4 BY MR. NORTH:

5 Q On Page 17 of your report, Doctor,
6 you state that you have observed banding of the
7 arms and bunching of the central mesh piece
8 with these devices.

9 A I'm looking for that specific --

10 Q Yeah, I'm having a hard time finding
11 it, too. I may have the wrong page here.

12 I'm sorry, there you say, I saw it,
13 it was taut and rigid. Towards the bottom of
14 the page, and let me quote this, you say: When
15 the mesh deforms and becomes cord-like, rigid,
16 and taut, it produces an instrument that can
17 saw into the issue and become the source of the
18 pain that I see frequently in these patients.

19 A Yes.

20 Q Have you ever seen a piece of Avaulta
21 mesh that had become cord-like, rigid, and
22 taut?

23 MR. GARRARD: He prefaced that with
24 watching the video, Richard.

25 A Whenever I operate on someone and do

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1 an explant surgery, the indications would
2 usually be bleeding, exposed mesh, pain for the
3 sexual -- the male sexual partner or a pain on
4 the part of the woman who is having surgery.

5 In the case of the woman herself
6 having pain and she's had a mesh kit
7 application to the anterior or a posterior
8 compartment, invariably one or more of the arms
9 is tightly stretched across the anterior or
10 posterior compartment, and the central portion
11 may also be tightly stretched, and/or crumpled
12 up as opposed to lying flat as it was
13 originally deployed into the patient.

14 So that would be an expected finding
15 to have one or more of those issues.

16 On the physical exam of a patient
17 prior to surgery, one of the characteristics,
18 which I believe was mentioned by the consulting
19 physicians in these four women, and is seen in
20 the patients I personally care for, and as
21 described in the literature, that you can feel
22 a band-like substance which is not normally
23 felt in women who have not had these particular
24 procedures performed.

25 BY MR. NORTH:

~In Re: Avaulta~

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1 Q Have you ever personally seen that
2 with an Avaulta product?

3 A On the Avaulta products that were
4 removed, I would have seen one or more of these
5 things. So the answer to that is yes. Do I
6 know was it Avaulta -- Avaulta Solo or Avaulta
7 Plus, I do not know that.

8 Q Doctor, you have not examined any
9 explanted material from any of the Plaintiffs
10 whose medical records you reviewed, have you?

11 A I have not seen any material, I have
12 not examined any patient that is in the list,
13 and I have not spoken to any of the patients,
14 nor have I spoken to their consulting or
15 primary care doctors.

16 Q And because of that, you do not know
17 whether there was shrinkage in the Avaulta mesh
18 in any of those Plaintiffs, do you?

19 MR. GARRARD: Object to the form of
20 your question. He's already referenced that in
21 terms of his review of the records.

22 MR. NORTH: Objection to the speaking
23 objection.

24 A The records from the primary treating
25 doctors and/or the consulting doctors suggest

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 they can see or feel the mesh products in these
2 patients.

3 BY MR. NORTH:

4 Q That's not my question. My question
5 has to do with shrinkage.

6 Are you able to say whether there was
7 any shrinkage in the mesh implanted in the
8 Plaintiffs whose records you reviewed?

9 MR. GARRARD: Same objection.

10 A Tell me how you would like me to
11 define that I know it shrank. What parameters
12 are you wanting me to use for that? Do you
13 mean did I know that it was measured and it was
14 shorter than it was before it was implanted?

15 BY MR. NORTH:

16 Q Well, Doctor, it's a given that you
17 believe these people had complications related
18 to the mesh.

19 A Right.

20 Q But I'm talking specifically about
21 shrinkage. Do you have any knowledge -- can
22 you point to -- do you have any personal
23 knowledge that the mesh in any of those
24 Plaintiffs whose records you reviewed actually
25 experienced shrinkage?

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 MR. GARRARD: Do you mean independent
2 of what he reviewed in the medical records?

3 BY MR. NORTH:

4 Q Do any of the medical records say the
5 mesh shrunk?

6 A I'll have to go back and look at that
7 to get that specific wording.

8 When I read the operative notes, when
9 the primary procedure was performed, the
10 doctors who performed them indicated that the
11 products were left with the ability to pass an
12 instrument between the product and the
13 surrounding viscera, the bowel, the bladder,
14 for example.

15 So the doctor specifically indicated
16 they left a space and that the arms were
17 deployed.

18 When the patients return for
19 subsequent surgery and the preoperative
20 evaluation, I believe every record indicated
21 that the examining doctor could feel a tight
22 band, a tender spot, something that reproduced
23 the pain. And in one or more of the operative
24 notes, it was documented that the mesh had
25 itself had folded on itself.

1 Did someone use the term "shrinkage"?
2 I would have to go back in the records and see
3 if that specific word was used.

4 My assessment of the situation is
5 that the product was left tension free and
6 there now is tight banding tenderness. That
7 something happened to change the configuration.
8 Whether the product itself shrank or whether
9 the product was contracted because of scar
10 tissue is in one sense a question of
11 definition.

12 The product itself was not the same
13 configuration as it was when it was deployed.

14 Q Doctor, I'm -- with all due respect,
15 I still don't think you've answered the
16 question. I understand that these patients'
17 records show complications that you associate
18 with the implantation of the mesh; is that
19 correct?

20 A That's accurate.

21 Q And you believe that in some of these
22 instances the configuration of the mesh would
23 have changed, correct?

24 A Based on my review of the records, I
25 believe that is true.

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 Q But you can't specifically say that
2 any configuration change was shrinkage in any
3 of those mesh products, can you?

4 MR. GARRARD: Object to the form of
5 the question. He's already answered that.

6 A If the term "shrinkage" means the
7 product had different dimensions than it had
8 before it was implanted, I do not have the
9 pre-implantation measurements and I do not have
10 the post implantation measurements.

11 BY MR. NORTH:

12 Q And so the same thing would be true
13 about contracture; is that correct?

14 MR. GARRARD: Object to the form of
15 your question. He's already answer you.

16 A The other part, there is no way to
17 tell when a product has been implanted how much
18 is removed.

19 So let's presume that I measured a
20 product before its implantation and I knew its
21 exact area based on a geometric formula. I now
22 explant the product and calculate the area
23 again based on a geometric formula.

24 If I knew the original area and the
25 area at explantation, I could presume one of

1 two things, that I took a defined percentage of
2 the product out. The fallacy of that thinking
3 is it is practically impossible to remove the
4 entire product.

5 So measuring what was removed doesn't
6 tell you how much of the product was removed.
7 In order to know that, you would have to know
8 how much is remaining in the body. And there's
9 not a good way to know that.

10 So whether you ask me if it's
11 shrinking or contracting, that's almost -- it's
12 a semantic differentiation. I think what I'm
13 saying to you is the area of the product that
14 is laid out in a flat surface has changed.

15 BY MR. NORTH:

16 Q Degradation. You can't say one way
17 or the other whether any of the mesh implanted
18 in the women whose records you reviewed
19 underwent a degradation process, can you?

20 A I cannot.

21 Q Are you able to say whether any of
22 the women whose records you reviewed had scar
23 plate formation?

24 A I can only go by the records of the
25 examining physicians to indicate there's

1 scarring in the area of the vaginal canal where
2 they're operating.

3 In at least of the few operative
4 notes, if not all, the term "scarring" is used.
5 I don't know that the term "scar plate" is
6 specifically used by either physician.

7 Q But the fact of the matter is, that
8 whatever opinions you may have regarding the
9 condition of the mesh or what happened to the
10 mesh in those individual Plaintiffs is based on
11 the medical records and doctors' depositions
12 that you've reviewed; is that correct?

13 A Would you ask me that again, please?
14 I missed the first part.

15 Q Your opinions as to what may have
16 occurred with the mesh implanted in these
17 women, whose records you reviewed, those
18 opinions are based only on the medical records
19 and the depositions, perhaps, of the treating
20 physicians, correct?

21 A No, that isn't correct.

22 Q What else is it --

23 A My -- my conclusions are based on my
24 professional experience, my professional
25 education, my examination of women who have had

1 complications of surgery, my interviews with
2 them, with their spouses, my examination of
3 them, my operating on them, in addition to the
4 information provided in these records.

5 So, otherwise, you would be presuming
6 I'm making -- drawing a conclusion
7 disassociated with anything else in my
8 background of knowledge and experience, and
9 that isn't true.

10 Q I guess my question is more this,
11 Dr. Shull. You don't have, and I think you've
12 conceded this, any personal knowledge about
13 what happened to the mesh in these women
14 because you never examined any pathology from
15 them, and you've never examined them, and
16 you've never taken -- or never talked to their
17 treating physicians, would you agree with that?

18 A I have not seen them, examined them,
19 talked to them, spoken to or consulted with
20 their treating physicians.

21 The information I have about these
22 women and their care comes from their medical
23 records by the physicians who treated them in
24 their communities.

25 Q Okay.

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 MR. NORTH: You know, it's close to
2 2:30 and I'm getting ready to start a whole new
3 area. It may be a good point to stop.

4 Are you comfortable with that?

5 MR. MOELLER: Sure.

6 VIDEO TECHNICIAN: You want to go off
7 the record?

8 MR. NORTH: Thank you so much.

9 MR. GARRARD: Can we agree that --

10 VIDEO TECHNICIAN: Do you want to go
11 off the record?

12 MR. NORTH: Yeah.

13 VIDEO TECHNICIAN: Stand by, please.

14 MR. GARRARD: This doesn't have to be
15 on the video, but I do want the court reporter.

16 Can we agree that we don't need to do
17 any errata sheet until we conclude the next
18 version?

19 MR. NORTH: Any what?

20 MR. GARRARD: Errata sheet until --

21 MR. NORTH: Oh, yes, absolutely.

22 And can we also agree on the record,
23 I think, what Margaret and I agreed to off the
24 record, that between now and the continuation
25 of this deposition she will make and scan and

~In Re: Avaulta~

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1 send to me copies of all your handwritten
2 notes.

3 THE WITNESS: Uh-huh.

4 MR. NORTH: Send those to us.

5 And if there's anything else original
6 here besides, you know, Bard documents or
7 depositions or medical literature, that you'll
8 send that to us. And then we'll have those
9 ready to use at the next continuation.

10 MR. GARRARD: When you say original,
11 I don't know what you mean.

12 MR. NORTH: I mean, handwritten
13 notes. Something besides the documents you all
14 have sent him or medical articles --

15 MR. GARRARD: Okay.

16 MR. NORTH: -- that he's collected.

17 MR. GARRARD: Sure.

18 MR. NORTH: In other words, something
19 that's not on this jump drive or Exhibit B.

20 MS. THOMPSON: Uh-huh, yeah, for
21 sure.

22 MR. NORTH: Okay.

23 MS. THOMPSON: And I believe that
24 will be only these -- these handwritten notes.

25 MR. NORTH: Yeah, that's what I

~In Re: Avaulta~

Bobbie Shull, M.D.

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1 think, and the billing reference we already
2 have.

3 MS. THOMPSON: We'll confirm there is
4 nothing else.

5 MR. NORTH: Sure.

6 MR. GARRARD: Okay.

7 (Signature reserved.)

8 (Deposition concluded at 2:20 p.m.)
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~In Re: Avaulta~

Bobbie Shull, M.D.

2/6/2013

C E R T I F I C A T E

STATE OF GEORGIA:

FULTON COUNTY:

I hereby certify that the foregoing transcript was taken down, as stated in the caption, and the colloquies, questions, and answers were reduced to typewriting under my direction; that the transcript is a true and correct record of the evidence given.

I further certify that I am not a relative or employee or attorney of any party, nor am I financially interested in the outcome of the action.

This 18th day of February, 2013.

Judith L. Leitz Moran, CCR-B-2312

In Re: Avaulta

Bobbie Shull, M.D.

2/6/2013

VIA EMAIL

Date: 2/18/2013

To: Henry Garrard

Re: Signature of Deponent Bobbie Shull, M.D.

Greetings:

The deponent has reserved the right to read and sign. Please have the deponent review the attached .pdf transcript, noting any changes or corrections on the attached .pdf Errata. The deponent may fill out the Errata electronically or print and fill out manually.

Once the Errata is signed by the deponent and notarized, please mail it to the offices of Tiffany Alley (below).

When the signed Errata is returned to us, we will seal and forward to the taking attorney to file with the original transcript. We will also send copies of the Errata to all ordering parties.

If the signed Errata is not returned within the time below, the original transcript may be filed with the court without the signature of the deponent.

Date Errata due back at our offices: 3/21/2013

Please send completed Errata to:
Tiffany Alley Reporting & Video
3348 Peachtree Rd NE, Tower 200, Ste 700
Atlanta, Georgia 30326
(770) 343-9696